

JVC

SERVICE MANUAL

STEREO CASSETTE DECK

TD-R611 A/B/C/E/G/J/U



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1 Safety Precautions

1. The design of this product contains special hardware and may circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (Δ) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).

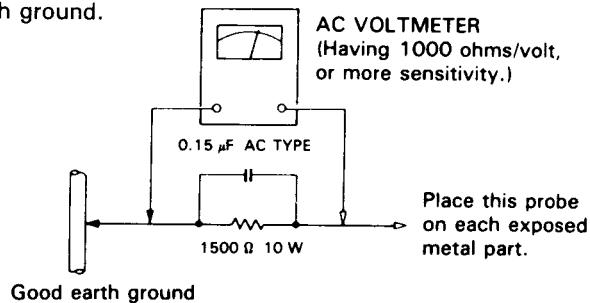
• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

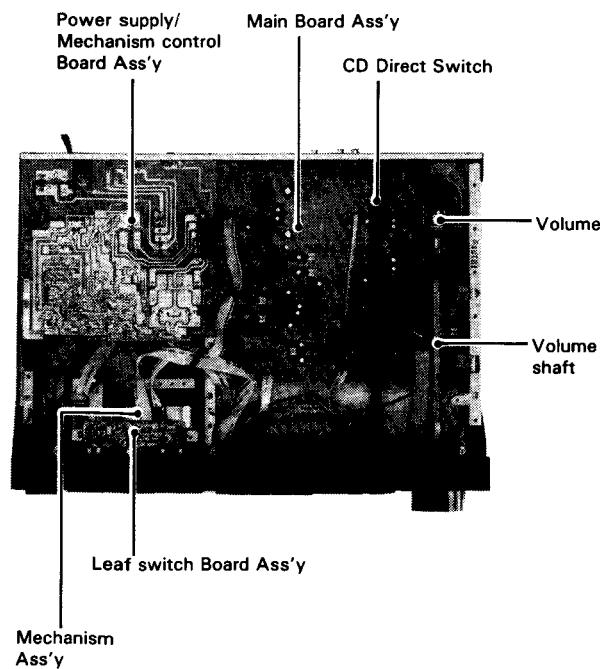
2 Specifications

| | | | |
|---------------------|---|----------------------------------|---|
| Type | : Stereo cassette deck | Motors | : Electronic governed DC motor for capstan × 1 |
| Track system | : 4-track, 2-channel | DC motor for reel × 1 | |
| Tape speed | : 1-7/8 inch/sec (4.8 cm/sec) | DC motor for mechanism drive × 1 | |
| Frequency response | : (-20 dB recording) Metal tape; 15-19,000 Hz 20-17,000 Hz (±3 dB) Chrome tape; 15-18,000 Hz 20-16,000 Hz (±3 dB) Normal tape; 15-18,000 Hz 20-16,000 Hz (±3 dB) | Fast forward/Rewind time | : Approx. 95 sec. with C-60 cassette |
| S/N ratio | : 58 dB (S=1 kHz, K3=3% N=A-weighted, Metal tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with Dolby B NR on. | Input terminals | : Min. input level; 80 mV (×1 circuit) Input impedance; 50 kΩ |
| Improvement of MOL | : 4 dB at 10 kHz with Dolby C NR on. | CD DIRECT | : Min. input level; 80 mV (×1 circuit) Input impedance; 50 kΩ |
| Wow and flutter | : 0.05% (WRMS) | Output terminals | : Output level; 300 mV (×1 circuit) |
| Channel separation | : 40 dB (1 kHz) | LINE OUT | : Output impedance; 5 kΩ |
| Crosstalk | : 60 dB (1 kHz) | PHONES × 1 | : Output level; 0~1 mW/8 Ω Matching impedance 8 Ω — 1 kΩ |
| Harmonic distortion | : K3; 0.5% THD; 1.0% (metal tape, 1 kHz 0 VU) | Other terminals | : COMPU LINK-1/SYNCHRO × 2 |
| Heads | : SA (Sen-Alloy) recording/ playback head, 2 Gap-Ferrite erasure head; Combination head × 1 | Power requirement | : AC240/220/120 V, 50/60 Hz |
| | | TD-R611A/B/E/G | : AC 120 V, 60 Hz |
| | | TD-R611C/J | : 15 W |
| | | Power consumpiton | |
| | | Dimensions | : 435 × 132 × 336 mm (17-3/16" × 5-1/4" × 13-1/4") |
| | | Weight | : 6.8 kg (15.0 lbs) |
| | | Accessories | : Pin plug cord 2 Remote cable 1 |

Design and specifications are subject to change without notice.

3 Location of Main Parts

Top view



Bottom view

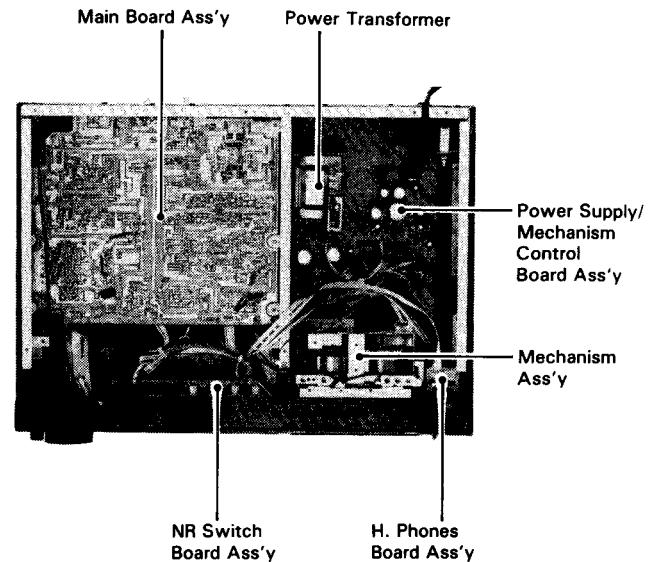


Fig. 3-1

4 Location of Control

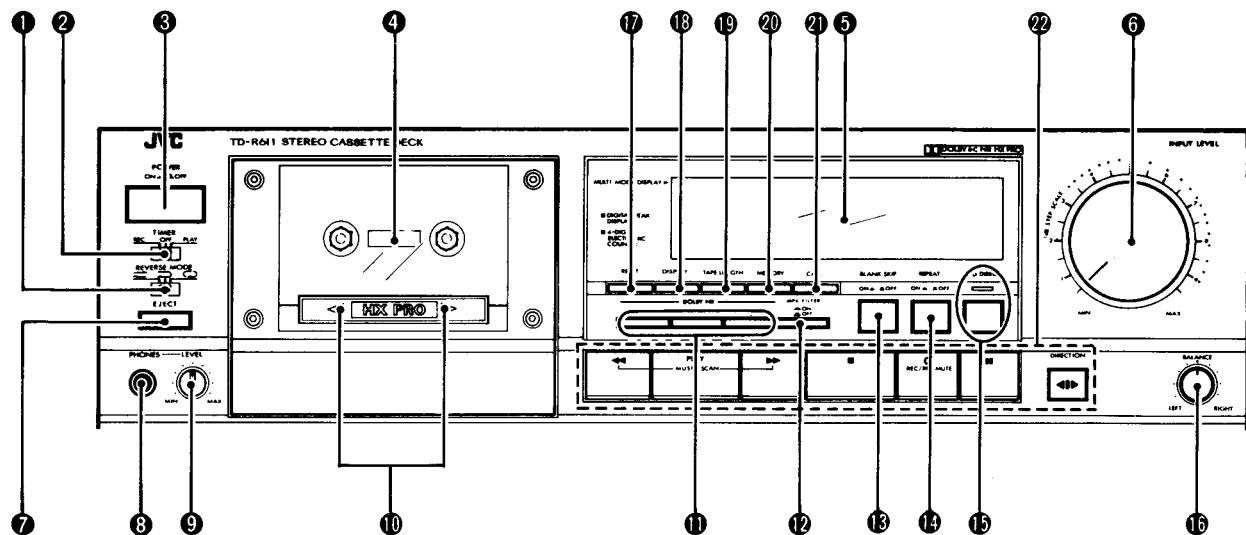


Fig. 4-1

① REVERSE MODE switch

Select a single side or full record/playback mode, or continuous play mode.

- : For recording or playback only a single side.
- : To fully play or record sides A and B.
- : To playback continuously sides A and B.

② TIMER switch

When an optional timer is used, recording and playback can be performed at any desired time.

③ POWER switch

④ Cassette holder

⑤ MULTI MODE display

- ① Tape remaining time display
- ② MEMORY indicator
- ③ PEAK LEVEL METER
- ④ Recording guide indicator
- ⑤ Digital peak indicator
- ⑥ Tape indicator
- ⑦ Digital counter
- ⑧ Tape length indicator
- ⑨ Reverse mode indicator
- ⑩ Mechanism mode indicator
- ⑪ MPX Filter indicator
- ⑫ DOLBY NR mode indicator

⑥ INPUT LEVEL control

Adjust the recording level with this control.

⑦ EJECT button

Press to open the cassette holder.

⑧ PHONES jack

Connect headphones (with an impedance of 8 ohms to 1 kohm).

⑨ PHONES LEVEL control

⑩ Tape direction indicator

⑪ DOLBY NR switches

Set to ON for recording using the Dolby NR system or for playback using the Dolby NR system. Set to OFF when the Dolby NR system is not used.

⑫ MPX FILTER switch

The MPX filter functions when the tape is recorded using the Dolby NR system. Normally, set this switch to OFF. When an FM stereo broadcast is to be recorded using Dolby NR, set this to ON to prevent the Dolby NR circuit from malfunctioning (otherwise the sound quality could deteriorate).

⑬ BLANK SKIP switch

Press this switch to skip quickly through blank portions of more than 10 seconds on the tape when playing back the tape.

⑭ REPEAT switch

use this switch with the MEMORY button.

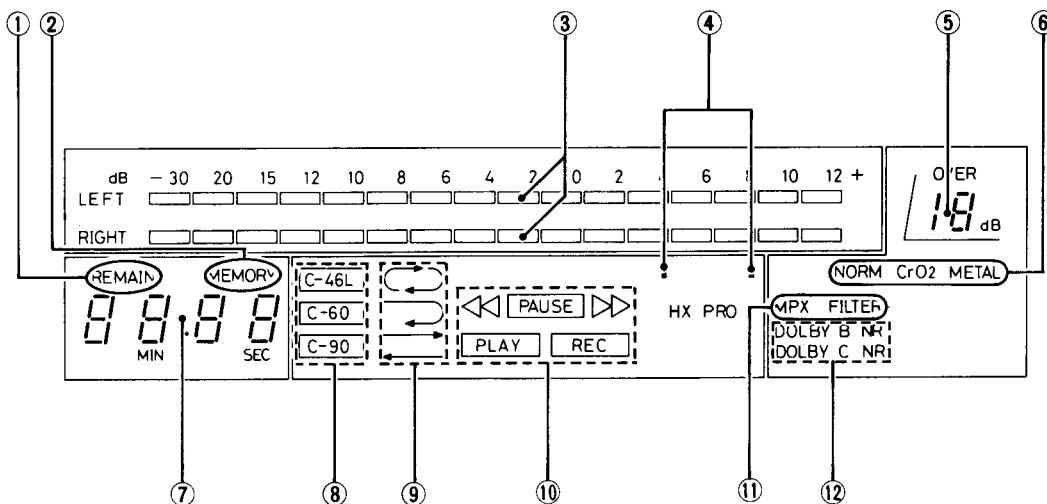


Fig. 4-2

15 CD DIRECT switch and indicator

Press this to make the indicator light when recording directly from a CD player. Press this again to make the indicator go out when recording from a source connected to LINE IN (line input).

16 BALANCE control

Adjusts the balance between the signals input via the left and right LINE IN jacks.

17 RESET button

Press to reset the tape counter to "0000".

18 DISPLAY button

Select the mode of the digital counter. The tape counter will be indicated when the power is first switched on. Press this button to select the tape remaining time display.

19 TAPE LENGTH button

Use this button when you want to check the remaining tape time. The remaining time must be displayed in the digital counter before setting the tape length (e.g., C-60).

20 MEMORY button

Use this button to specify the position at which you want the tape to stop in rewind and repeat playback.

21 CALL button (Digital peak)

Press to call up the stored peak level or reset the memory.

22 Cassette operation buttons**◀ (rewind):**

Press to fast wind the tape from right to left.

PLAY:

Press to start recording/playback. Press this button with either the **◀** or **▶** button for music scanning.

▶ (fast forward):

Press to fast wind the tape from left to right.

■ (stop):

Press to stop the tape.

○ REC/REC MUTE:

Press the PLAY button while pressing this button to start recording, and press to leave an appropriate non-recorded section.

■ (pause):

Press to stop the tape temporarily. Press the PLAY button to release the pause mode.

◀▶ DIRECTION:

Press to change the direction of tape travel.

5 Removal of Main Parts

(Cabinet Parts)

■ Top Cover

- 1) Remove the four screws on the left and right.
- 2) Remove the two screws on the back side.

■ Back Cover

- 1) Remove the six screws ① ① retaining the back cover. It is possible in this state to replace parts on the main power source P.C. Board.

■ Front Plate

- 1) Remove the input level volume knob and the balance volume knob.
- 2) Remove the five screws ② retaining the front plate on the top and bottom.

■ Front Panel Assembly

- 1) Remove the power source switch knob.
- 2) Remove the switch side of the input change remote bar and remove the knob.
- 3) Pull the input volume remote bar inward and remove from the F. panel.
- 4) Remove the two screws ③ retaining the center chassis on the front side.
- 5) Remove the four screws ④ retaining the panel assembly on both sides.
- 6) When necessary, remove the wire processing.

■ Removal From the Front Panel Assembly

Mechanism Assembly

- 1) Remove the two screws ⑤ retaining the upper side of the mechanism assembly from the back.
- 2) Remove the solder for the LED lead on the leaf switch P.C. Board.
- 3) Remove the two screws ⑥ retaining the bottom side of the mechanism assembly.
- 4) Open the cassette door and remove.

■ Timer Switch

Release the hooks retaining the switch P.C. Board at four locations.

■ Headphone Jack P.C. Board

- 1) Pull out the output volume knob.
- 2) Remove the nut which is retaining the jack.
- 3) Remove the volume bracket, push the volume shaft upward and remove from the groove.

■ Volume P.C. Board

- 1) Release the hooks which are retaining the balance volume P.C. Board at two locations.

■ Display, Dolby B/C NR, MPX Filter Switch P.C. Board

- 1) Remove the two nuts ⑦ retaining the switch.
- 2) Release the hooks which are retaining the P.C. Board at six locations.

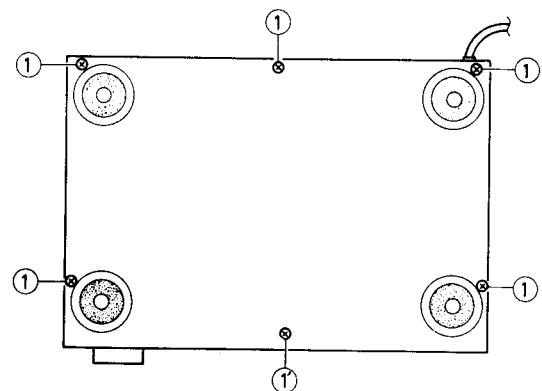


Fig. 5-1

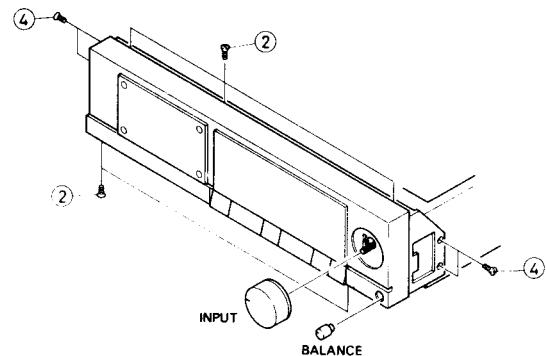


Fig. 5-2

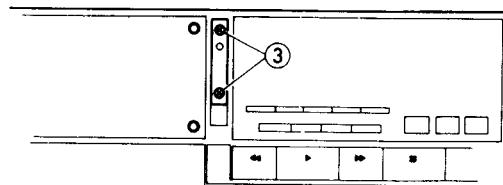


Fig. 5-3 Assembly as seen from inside.

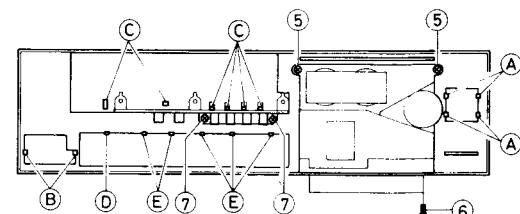


Fig. 5-4

■ Switch P.C. Board Assembly

Remove hook ④ and then remove hooks ⑤ in five locations in the correct order starting on the ④ side. Pressing the P.C. Board from the hole on the front panel will facilitate removal.

(Mechanism Section) Refer to disassembly figures.**■ Head Assembly:**

- 1) Remove the head wire from the wire holder.
- 2) Make sure the head cap is protected (by covering with paper secured with tape).
- 3) Remove the two screws on the head cap side and slowly pull out the head cap. It should be possible for the shield section to move as far as the head mount assembly.

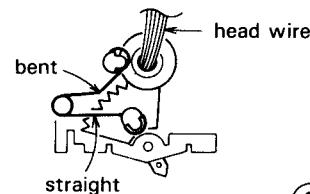


Fig. 5-5

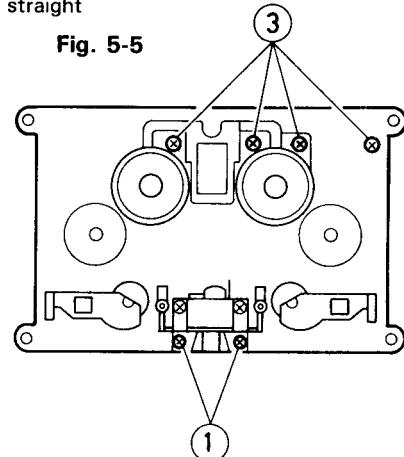


Fig. 5-6

■ Head Mount Assembly

- 1) Remove the head return spring.
- 2) Remove the two screws ① retaining the head mount assembly.

■ FM Bracket

- 1) Remove the five screws ② and ⑤ retaining both sides of the FM bracket.
- 2) The bracket on the capstan motor side has a hub hook.
- 3) Removing the motor bracket will make it possible to remove the belt.

■ Flywheel Assembly

- 1) Remove the screws retaining the flywheel metal from the holes in the flywheel.

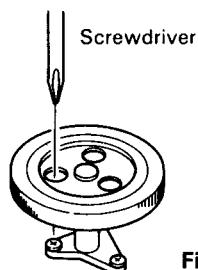


Fig. 5-7

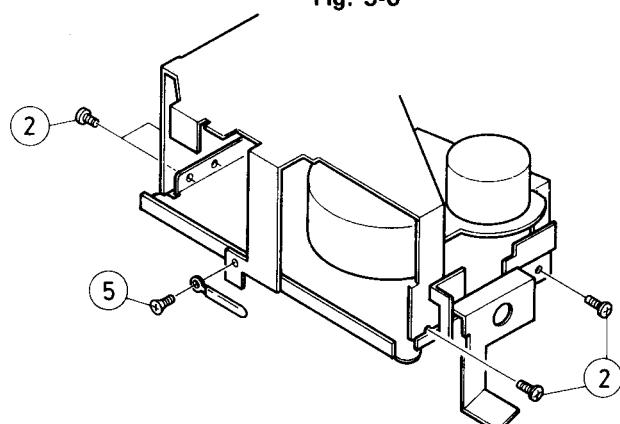
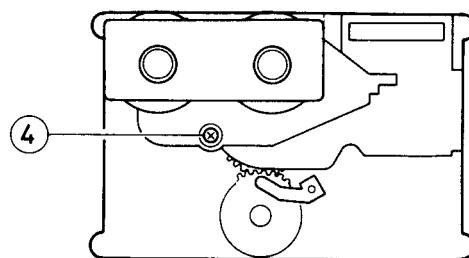


Fig. 5-8

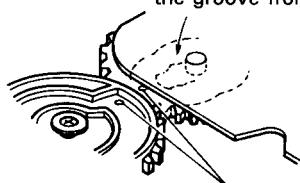
■ Disk Base Assembly

- 1) Remove the flywheel.
- 2) Remove the four screws ③ retaining the cam motor and the reel motor (on the head assembly side).
- 3) Remove the screw ④ retaining the head base.
- 4) Pulling the brake arm away from the disk arm will allow removal.



Meshing of the cam gears:

The studs of the head base arm enter the groove from the bottom.



When meshing the cam gears, the □ marks are meshed.

Fig. 5-9

Fig. 5-10

6 Main Adjustments

1. Equipment and measuring instruments used for adjustments

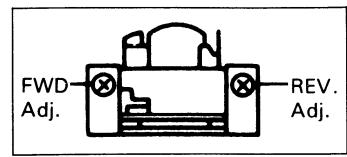
- 1) Electronic voltmeter
- 2) Audio frequency oscillator
(range: 50—20 kHz and output 0 dB with impedance of 600 Ω)
- 3) Attenuator (impedance: 600 Ω)
- 4) Standard tapes for REC/PB
Maxell UD1 — Normal (SF) tape
TDK SA — Chrome (SA) tape — or equivalent
JVC ME — Metal tape
- 5) Reference tape for playback (JVC Test Tape)
TMT6451 (or VTT712) (for tape speed, wow flutter adj.)
VTT644 (or VTT724) (for playback level)
VTT739 (for playback frequency response)
VTT703L (10 kHz) (for head azimuth adj.)
- 6) Resistor 600 Ω (for attenuator matching)
- 7) Distortion meter (bandpass filter)
- 8) Torque testing cassette gauge, CGT-N
- 9) Wow flutter meter
- 10) Frequency counter
- 11) M300 gauge (tape transport Adj.)

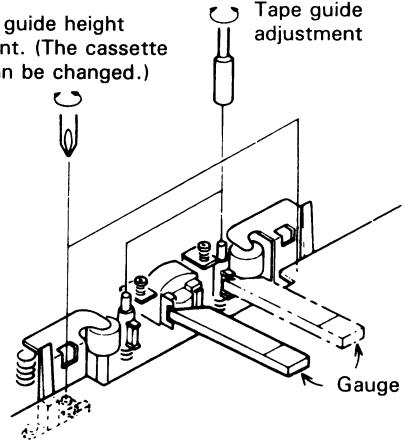
2. Mechanism adjustment proceder

| Item | Adjustment | Adjusting point | Standard value | Remarks |
|------------------------------|--|----------------------------------|-------------------|---|
| Adjusting motor speed | 1. Connect a frequency counter to the LINE OUT terminals. 2. Play back the test tape (VTT712). 3. Adjust the semi-fixed resistor in the capstan motor until the reading of the speed meter is 3000 Hz. | Semi fixed resistor in the motor | 3000 Hz ±15 Hz | |
| Checking wow and flutter | Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.11 % (WRMS). | | 0.11 % (WRMS) | If the reading becomes moveing value even if confirming to the standard, a re-claim may be raised. Reparis are necessary. |
| Checking playback torque | Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge. | | 35—75 gr-cm | If the standard torque is not obtained, replace the take-up disk assembly. |
| Checking fast forward torque | Measure the torque in the fast forward mode in the same manner as in the above. | | 70 g—200 gr-cm | If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disk circumference, the flywheel circumference, etc. 2. Replace the belt and idler. |
| Checking rewind torque | Measure the torque in the rewind mode in the same manner as in the above. | | 70 g—200 gr-cm | If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disk circumference, etc. |

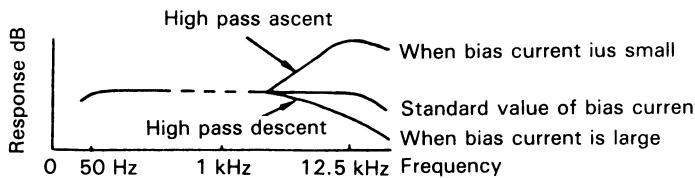
3. Electrical adjustments procedure

Notes: 0 dBs = 0.775 V

| Item | Adjustment | Adjusting point | Standard value | Remarks |
|------------------------|--|-------------------|----------------|---|
| Adjusting Head azimuth | 1. Connect an electronic voltmeter to the LINE OUT terminals 2. Playback the VTT703L test tape. 3. Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels. | Screws (FWD, REV) | Maximum |  |

| Items | Tape to be used/jig | Standard | Adjustment and checking method | Adjusting points |
|---------------------------|--------------------------|---|--|---|
| Tape transport adjustment | M300 gauge and C-90 tape | The tape should not be curled or stretched during travel. | Adjust the tape guide and cassette guide heights so that the gauge passes through the guide smoothly. Confirm it in both forward and reverse directions. Note: Normally, the tape travel can only be adjusted at tape guide. However, when this adjustment is not sufficient, adjust the cassette guide height. | Refer to the illustration below. (Apply screw locking compound after adjustment.)  |

| Adjustment Methods and Verification Methods | | | | |
|---|---|-------------------|---|--|
| 1 | Item | Verification Item | Frequency Level | Output ascent value, deviation |
| 1 | Dolby circuit recording verification (recording mode, bias stopped) | Recording Dolby B | INPUT; LINE IN Decision point: REC OUT Decision standard level 400 Hz – 6 dBs (=Ca. Level) | 1 kHz Cal – 40 dB + 5.7 dB ± 1 dB 5 kHz Cal – 20 dB + 3.5 dB ± 1.5 dB |
| | | Recording Dolby C | 1 kHz Cal 0 dB ± 1 dB 1 kHz Cal – 40 dB + 17 dB ± 1.5 dB 5 kHz Cal – 20 dB + 3.5 dB ± 1.5 dB 1 kHz Cal 0 dB ± 1 dB | |

| | Item | Adjustment Method | Adjustment Location | Standard Values | Remarks |
|---|---|--|--|--|--|
| *2 | Playback output level | Record VTT724 (1 kHz) and adjust VR102 and VR202 so that the LINE OUT level is – 8 dBs. | Lch VR102 Rch VR202 | – 8 dBs ± 0.5 | Adjust after replacement. |
| *3 | Playback frequency characteristics | Record VTT739 (1 kHz, 10 kHz) and adjust VR101 and VR201 so that the 1 kHz and 10 kHz output is flat. | Lch VR101 Rch VR201 | 10 kHz: 0.5 ± 1 dB 63 Hz: + 2 ± 3 dB | |
| *4 | Recording bias current frequency OSC efficiency adjustment | Connect the frequency counter to C951 (OSC secondary side) while passing at a level of 1 MΩ. Adjust L901 until the reading on the F counter is 95 kHz. Adjust L105 and L205 so that the voltage for both R354 and R454 in the metal tape position is at minimum. | L901 | 95 kHz ± 3 dB | Metal position |
| *5 | Recording Frequency Characteristics | NR SW; OFF Record 1 kHz with an input of 0 dB minus 20 dB and then record 50 Hz and 12.5 Hz. Adjust VR104, 204 (normal) so that the deviation for 50 Hz and 12.5 kHz output satisfies standard values in relation to a 1 kHz output during playback. (As a rule, it should be adjusted so that the 1 kHz and 12.5 kHz output is flat) | B mechanism (normal) VR104 VR204 | With 1 kHz as standard: 0 ± 1 at 50 Hz, 0 ± 0.5 dB at 12.5 kHz | An input of 0 dB minus 20 dB means an input where a 0 dB input has been weakened 20 dB with the ATT. 1) As for the recording playback frequency characteristics of the cassette deck, it is customary to adjust by means of bias adjustment. This is because the level of dependency for the bias current of the frequency characteristics is larger compared to open reel tape. 2) If the bias current is not correctly adjusted, the recording characteristics will be as shown in the figure at left. |
|  | | | | | |
| *6 | Recording level | Adjust volume VR103 (Lch) and V203 (Rch) so that the value equals – 8 dBs when 1 kHz 0 dB, – 20 dB input is recorded. | Lch VR103 Rch VR203 | – 8 dBs ± 0.5 dB | |

* An item for adjustment and verification when replacing heads

Electric

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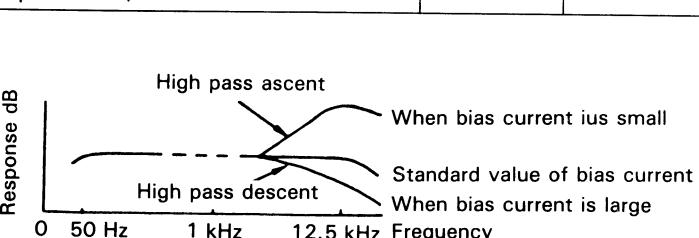
Note:
The recording level (– 8 dBs) is the same as the playback level (– 8 dBs). The recording level is – 20 dB when the recording bias current is adjusted to the standard value.

R

3. Electrical adjustments proceder

Notes: 0 dBs = 0.775 V

| Item | | Adjustment Methods and Verification Methods | | | |
|------|---|---|-------------------|-------------------|--------------------------------|
| 1 | Dolby circuit recording verification (recording mode, bias stopped) | Recording Dolby B | Verification Item | Frequency Level | Output ascent value, deviation |
| | INPUT; LINE IN Decision point: REC OUT | | 1 kHz Cal – 40 dB | + 5.7 dB ± 1 dB | |
| | Decision standard level 400 Hz – 6 dBs (=Ca. Level) | | 5 kHz Cal – 20 dB | + 3.5 dB ± 1.5 dB | |
| | | | 1 kHz Cal | 0 dB ± 1 dB | |
| | Recording Dolby C | | 1 kHz Cal – 40 dB | + 17 dB ± 1.5 dB | |
| | | | 5 kHz Cal – 20 dB | + 3.5 dB ± 1.5 dB | |
| | | | 1 kHz Cal | 0 dB ± 1 dB | |

| | Item | Adjustment Method | Adjustment Location | Standard Values | Remarks |
|----|---|--|---|--|--|
| *2 | Playback output level | Record VTT724 (1 kHz) and adjust VR102 and VR202 so that the LINE OUT level is -8 dBs. | Lch VR102 Rch VR202 | -8 dBs ± 0.5 | Adjust after replacement. |
| *3 | Playback frequency characteristics | Record VTT739 (1 kHz, 10 kHz) and adjust VR101 and VR201 so that the 1 kHz and 10 kHz output is flat. | Lch VR101 Rch VR201 | 10 kHz: 0.5 ± 1 dB 63 Hz: $+2 \pm 3$ dB | |
| *4 | Recording bias current frequency OSC efficiency adjustment | Connect the frequency counter to C951 (OSC secondary side) while passing at a level of 1 M Ω . Adjust L901 until the reading on the F counter is 95 kHz. Adjust L105 and L205 so that the voltage for both R354 and R454 in the metal tape position is at minimum. | L901 | 95 kHz ± 3 dB | Metal position |
| *5 | Recording Frequency Characteristics | NR SW; OFF Record 1 kHz with an input of 0 dB minus 20 dB and then record 50 Hz and 12.5 Hz. Adjust VR104, 204 (normal) so that the deviation for 50 Hz and 12.5 kHz output satisfies standard values in relation to a 1 kHz output during playback. (As a rule, it should be adjusted so that the 1 kHz and 12.5 kHz output is flat) | B mechanism (normal) VR104 VR204 | With 1 kHz as standard: 0 ± 1 at 50 Hz, 0 ± 0.5 dB at 12.5 kHz | <p>An input of 0 dB minus 20 dB means an input where a 0 dB input has been weakened 20 dB with the ATT.</p> <p>1) As for the recording playback frequency characteristics of the cassette deck, it is customary to adjust by means of bias adjustment. This is because the level of dependency for the bias current of the frequency characteristics is larger compared to open reel tape.</p> <p>2) If the bias current is not correctly adjusted, the recording characteristics will be as shown in the figure at left.</p>  |
| *6 | Recording level | Adjust volume VR103 (Lch) and V203 (Rch) so that the value equals -8 dBs when 1 kHz 0 dB, -20 dB input is recorded. | Lch VR103 Rch VR203 | -8 dBs ± 0.5 dB | |

* An item for adjustment and verification when replacing heads

| | Item | Adjustment Method | Adjustment Location | Standard Values | Remarks |
|----|--|--|---------------------|--|---|
| 7 | Adjustment and verification of level indicator | Adjust LINE OUT to -38 dBs. Adjust VR903 so that the FL indicator at this time lights at -30 dBs and is extinguished at -40 dBs. 0 dB will light at -8 dBs. | VR903 | | |
| *8 | Checking record/playback distortion | 1) Record a 1 kHz, -20 dB signal to LINE IN terminals. 2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. | | Normal tape: Less than 2% CrO ₂ tape: Less than 3% Metal tape: Less than 2% (THD) | Be sure to perform this checking following bias current and recording level checking. |
| 9 | Checking signal to noise ratio in recording/playback | 1) Record a 1 kHz, -20 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2) Play back the recorded part. Measure the -8 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. | | Normal, CrO ₂ & Metal tapes: More than 42 dB | Apply an input level to LINE IN terminals with the recording level controls set to maximum so that the peak level indicator reads 0 dB. |
| 10 | Checking erasing coefficient | 1) Apply a 1 kHz -20 dB signal to the LINE IN terminals. 2) Perform recording with the signal enhanced by 20 dB. 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter. | | More than 65 dB | For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter. |

Electrical adjustments location

- **Main Amp. P.C. Board (parts assembly side view)**
(Turning in the direction of the arrow increases the level.)

Note:

The record a 1 kHz, -20 dB signal is reference level (-8 dBs) level, so -20 dB is low level

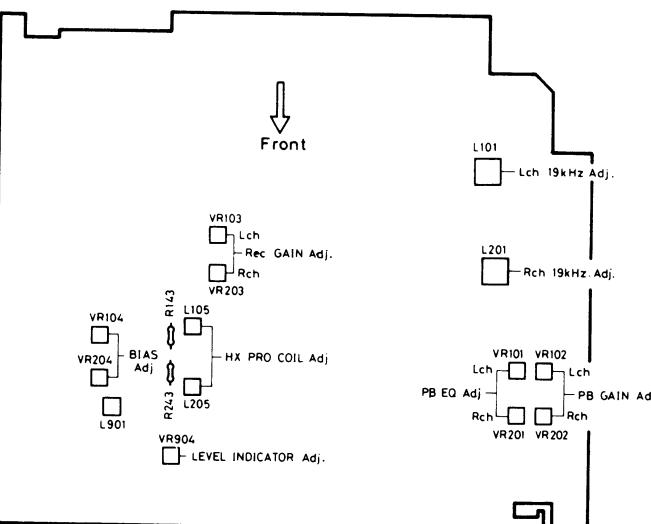
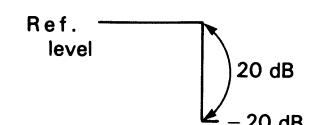


Fig. 6-1

7 Wiring

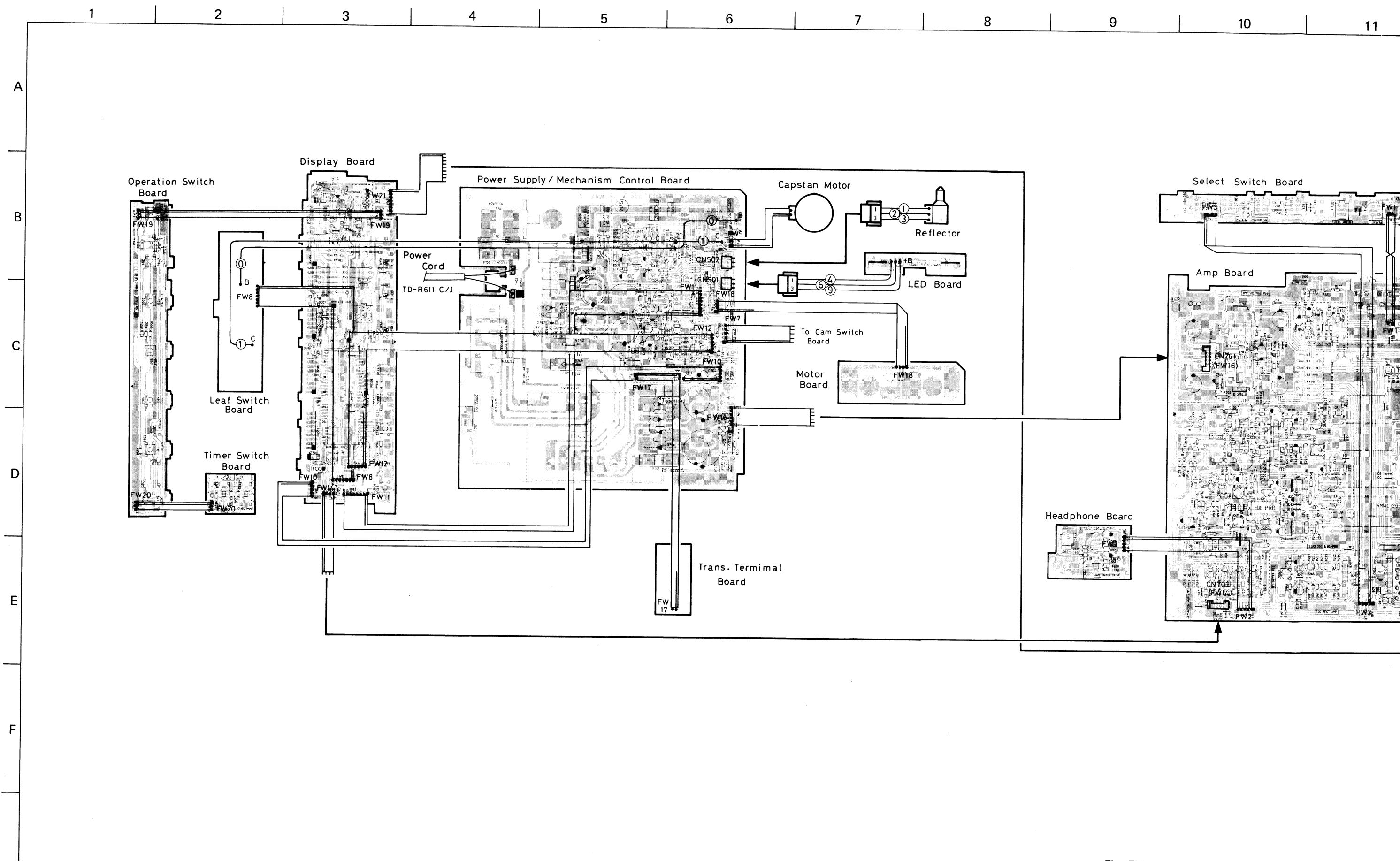
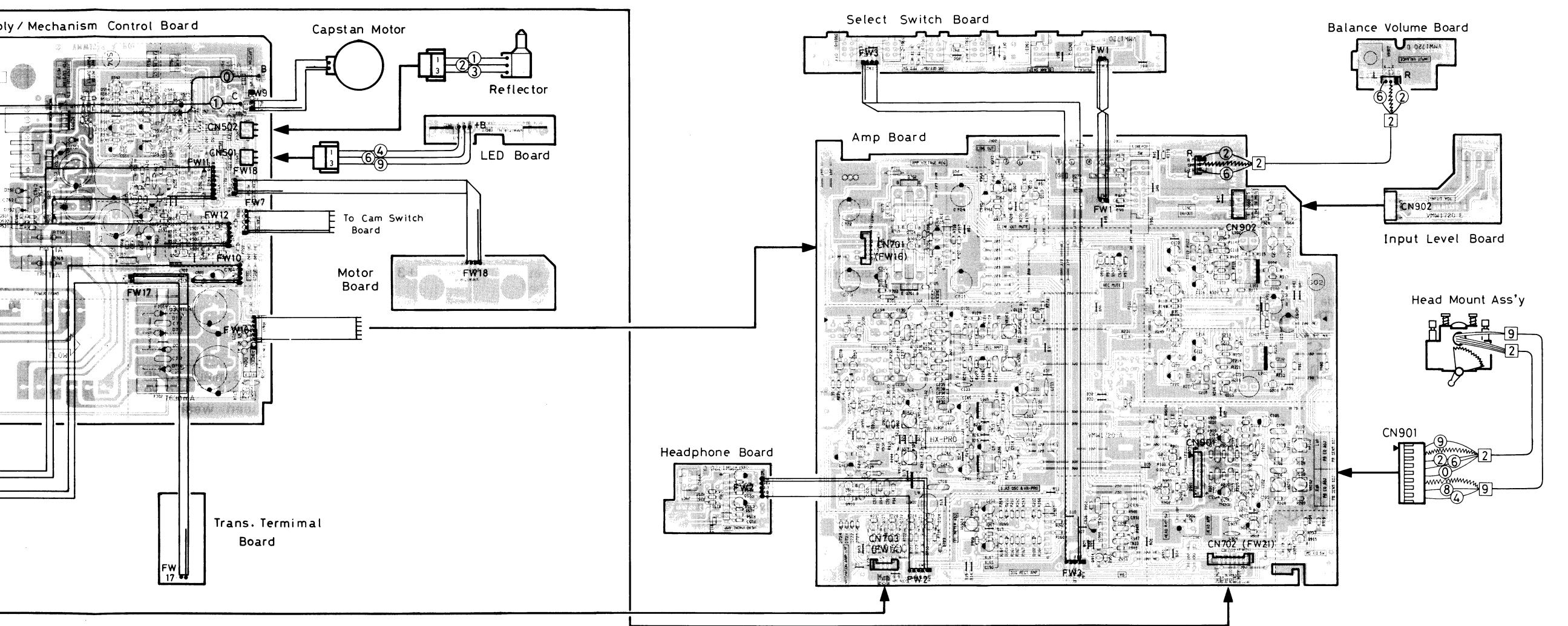


Fig. 7-1

5 6 7 8 9 10 11 12 13 14 15

Color codes are shown below.

- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Violet
- 8 Gray
- 9 White
- 0 Black
- D Pink
- C Light Blue



8 Block Diagram

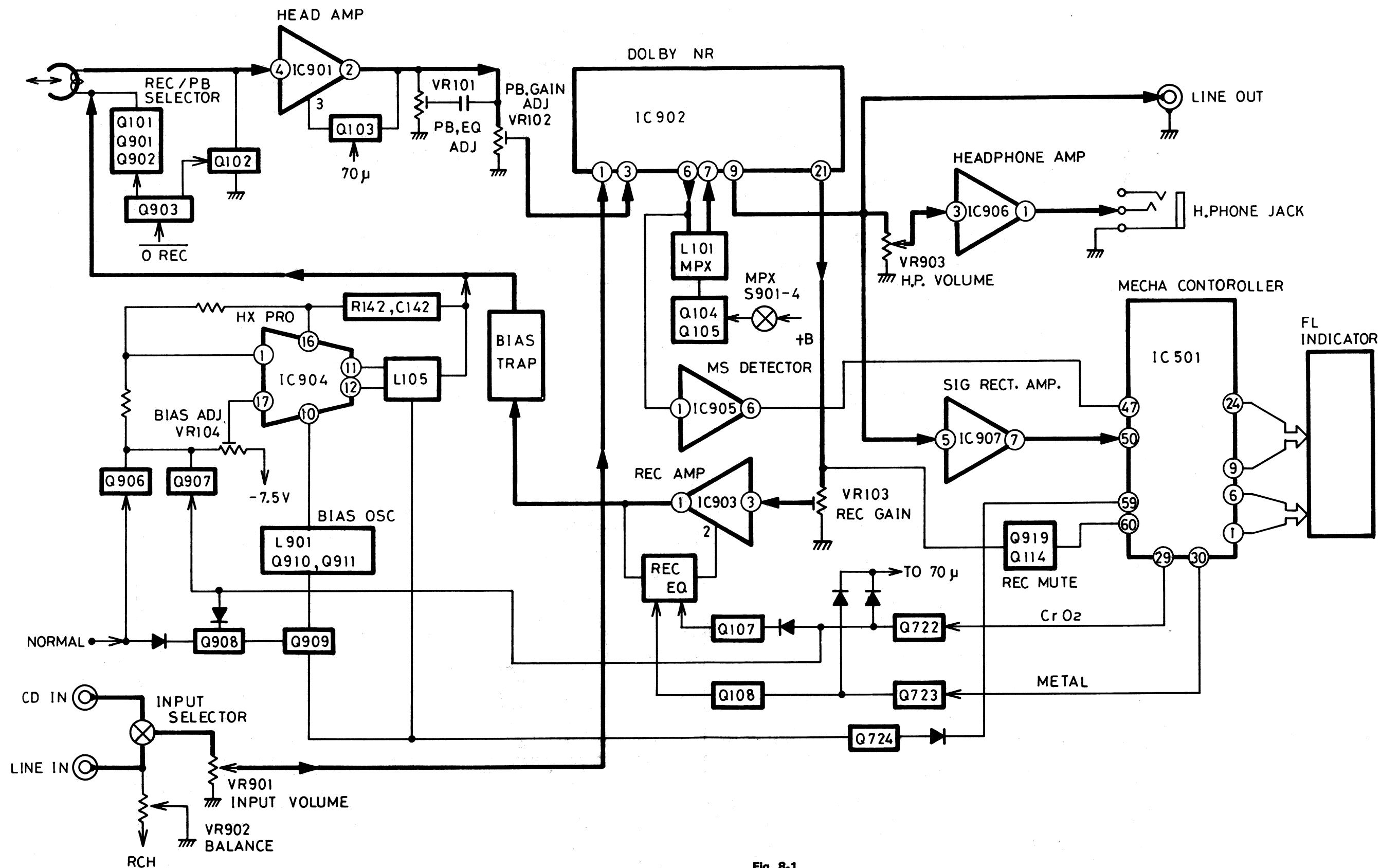


Fig. 8-1

9 Standard Schematic Diagram

1 2 3 4 5 6 7 8 9 10

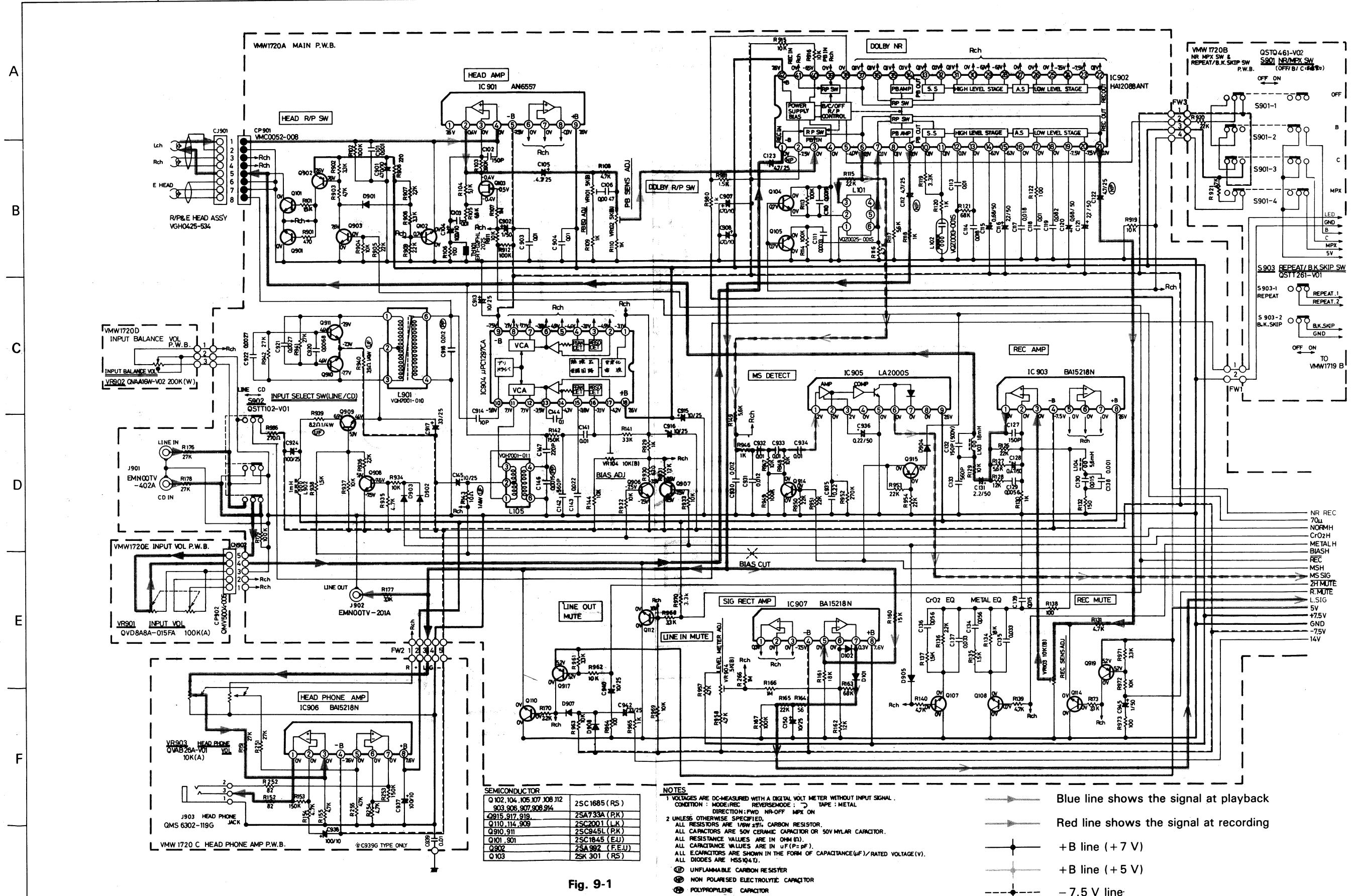
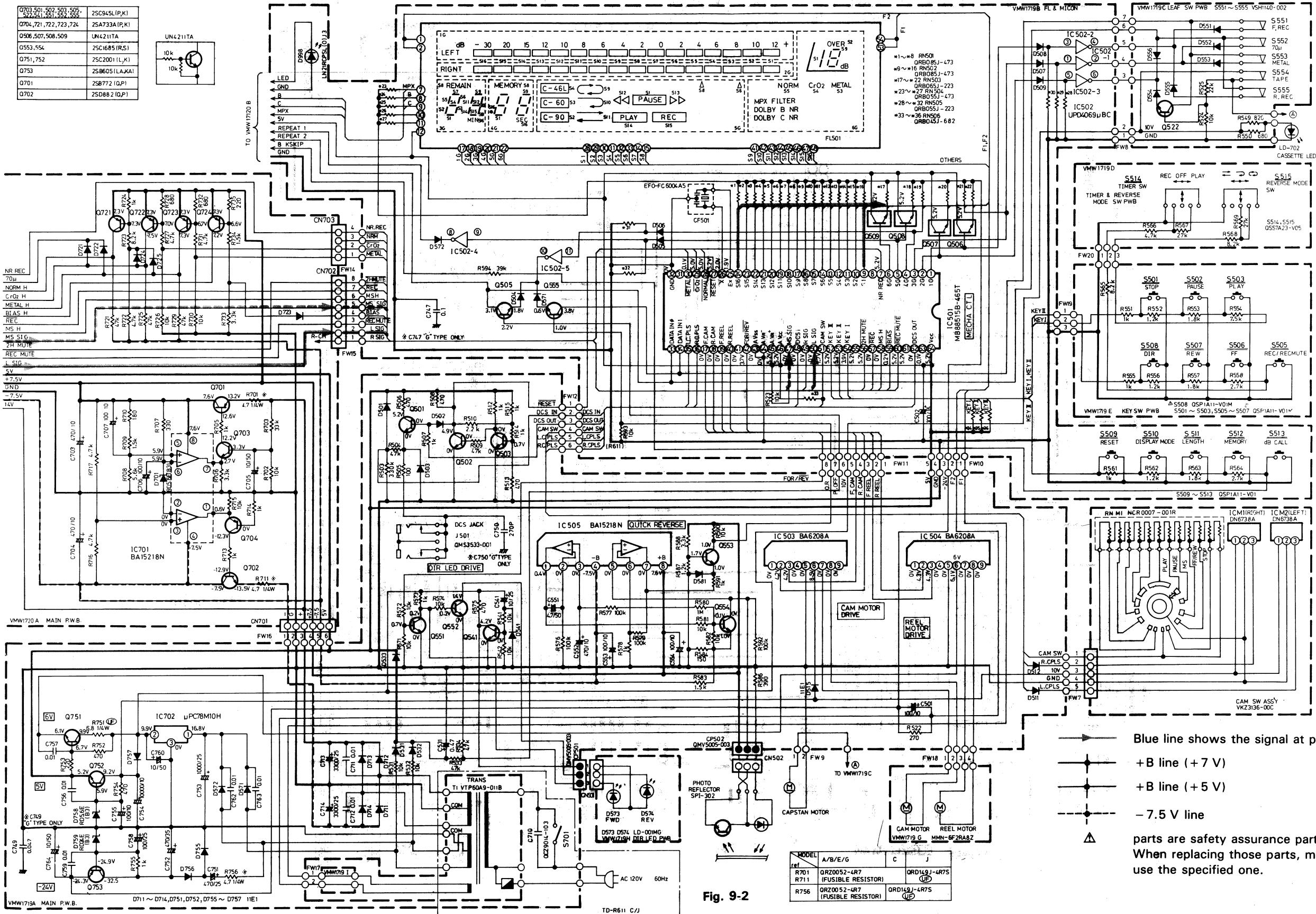


Fig. 9-1

11 12 13 14 15 16 17 18 19 20



10 Location of P.C. Board Parts and Parts List

■ Main Board

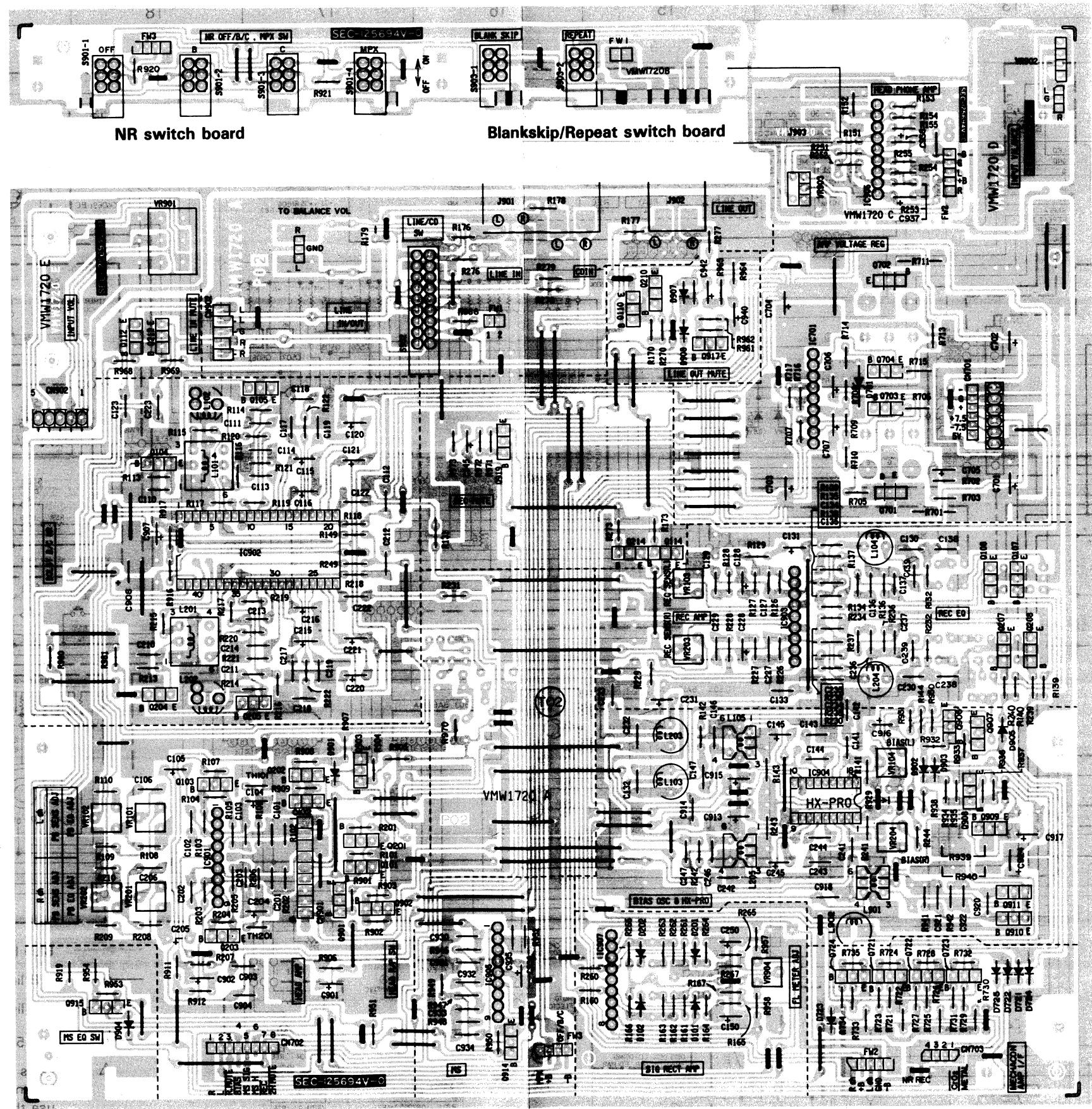


Fig. 10-1

10 Location of P.C. Board Parts and Parts List

■ Main Board

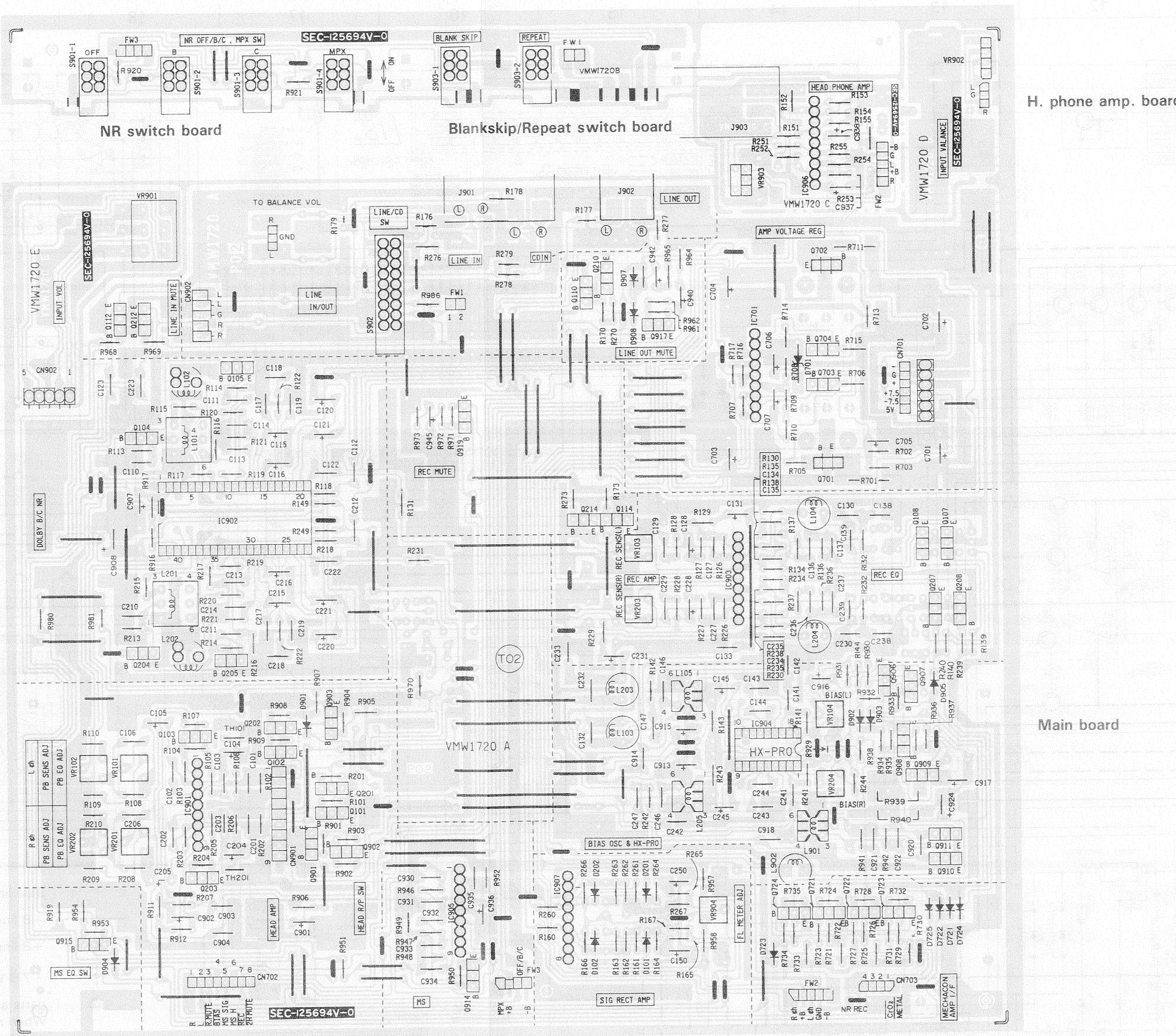


Fig. 10-

Main Board Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

| △ REF. NO | PARTS NO. | PARTS NAME |
|-----------|---------------|----------------|
| CN701 | VMC0106-006 | CONNECTOR |
| CN702 | VMC0106-008 | CONNECTOR |
| CN703 | VMC0106-004 | CONNECTOR |
| CP901 | QMV5010-009 | CONNECTOR |
| CP902 | QMV5004-005 | CONNECTOR |
| C101 | QFN31HJ-102Z | M.CAPACITOR |
| C102 | QCS31HJ-151Z | C.CAPACITOR |
| C103 | QFV71HJ-103ZM | TF.CAPACITOR |
| C104 | QETC1AM-107ZN | E.CAPACITOR |
| C105 | QETC1EM-475ZN | E.CAPACITOR |
| C106 | QFN31HJ-472Z | M.CAPACITOR |
| C110 | QFN31HJ-152Z | M.CAPACITOR |
| C111 | QFN31HJ-332Z | M.CAPACITOR |
| C112 | QEN61EM-475Z | NP.E.CAPACITOR |
| C113 | QFV71HJ-103ZM | TF.CAPACITOR |
| C114 | QFV71HJ-183ZM | TF.CAPACITOR |
| C115 | QETC1HM-684ZN | E.CAPACITOR |
| C116 | QETC1HM-225ZN | E.CAPACITOR |
| C117 | QFV71HJ-183ZM | TF.CAPACITOR |
| C118 | QFV71HJ-103ZM | TF.CAPACITOR |
| C119 | QFV71HJ-823ZM | TF.CAPACITOR |
| C120 | QETC1HM-684ZN | E.CAPACITOR |
| C121 | QETC1HM-225ZN | E.CAPACITOR |
| C122 | QEN61EM-475Z | NP.E.CAPACITOR |
| C123 | QEN61EM-475Z | NP.E.CAPACITOR |
| C127 | QCS31HJ-151Z | C.CAPACITOR |
| C128 | QETC1HM-474ZN | E.CAPACITOR |
| C129 | QCY31HK-562Z | C.CAPACITOR |
| C130 | QFV71HJ-153ZM | TF.CAPACITOR |
| C131 | QETC1HM-225ZN | E.CAPACITOR |
| C132 | QCS12HJ-151V | C.CAPACITOR |
| C133 | QCS31HJ-561Z | C.CAPACITOR |
| C134 | QCC31EM-563ZV | C.CAPACITOR |
| C135 | QCC31EM-333ZV | C.CAPACITOR |
| C136 | QCC31EM-563ZV | C.CAPACITOR |
| C137 | QCC31EM-333ZV | C.CAPACITOR |
| C138 | QFN31HJ-102Z | M.CAPACITOR |
| C139 | QFV71HJ-153ZM | TF.CAPACITOR |
| C141 | QFV71HJ-103ZM | TF.CAPACITOR |
| C142 | QCY31HK-561Z | C.CAPACITOR |
| C143 | QFV71HJ-223ZM | TF.CAPACITOR |
| C144 | QFV71HJ-104ZM | TF.CAPACITOR |
| C145 | QETC1EM-106ZN | E.CAPACITOR |
| C146 | QFP82AJ-152 | PP.CAPACITOR |
| C147 | QCS31HJ-221Z | C.CAPACITOR |
| C150 | QETC1EM-106ZN | E.CAPACITOR |
| C201 | QFN31HJ-102Z | M.CAPACITOR |
| C202 | QCS31HJ-151Z | C.CAPACITOR |
| C203 | QFV71HJ-103ZM | TF.CAPACITOR |
| C204 | QETC1AM-107ZN | E.CAPACITOR |
| C205 | QETC1EM-475ZN | E.CAPACITOR |
| C206 | QFN31HJ-472Z | M.CAPACITOR |
| C210 | QFN31HJ-152Z | M.CAPACITOR |
| C211 | QFN31HJ-332Z | M.CAPACITOR |
| C212 | QEN61EM-475Z | NP.E.CAPACITOR |
| C213 | QFV71HJ-103ZM | TF.CAPACITOR |
| C214 | QFV71HJ-183ZM | TF.CAPACITOR |
| C215 | QETC1HM-684ZN | E.CAPACITOR |
| C216 | QETC1HM-225ZN | E.CAPACITOR |
| C217 | QFV71HJ-183ZM | TF.CAPACITOR |
| C218 | QFV71HJ-103ZM | TF.CAPACITOR |
| C219 | QFV71HJ-823ZM | TF.CAPACITOR |
| C220 | QETC1HM-684ZN | E.CAPACITOR |
| C221 | QETC1HM-225ZN | E.CAPACITOR |
| C222 | QEN61EM-475Z | NP.E.CAPACITOR |
| C223 | QEN61EM-475Z | NP.E.CAPACITOR |
| C227 | QCS31HJ-151Z | C.CAPACITOR |
| C228 | QETC1HM-474ZN | E.CAPACITOR |
| C229 | QCY31HK-562Z | C.CAPACITOR |
| C230 | QFV71HJ-153ZM | TF.CAPACITOR |

| △ REF. NO | PARTS NO. | PARTS NAME |
|-----------|---------------|--------------|
| C231 | QETC1HM-225ZN | E.CAPACITOR |
| C232 | QCS12HJ-151V | C.CAPACITOR |
| C233 | QCS31HJ-561Z | C.CAPACITOR |
| C234 | QCC31EM-563ZV | C.CAPACITOR |
| C235 | QCC31EM-333ZV | C.CAPACITOR |
| C236 | QCC31EM-563ZV | C.CAPACITOR |
| C237 | QCC31EM-333ZV | C.CAPACITOR |
| C238 | QFN31HJ-102Z | M.CAPACITOR |
| C239 | QFV71HJ-153ZM | TF.CAPACITOR |
| C241 | QFV71HJ-103ZM | TF.CAPACITOR |
| C242 | QCY31HK-561Z | C.CAPACITOR |
| C243 | QFV71HJ-223ZM | TF.CAPACITOR |
| C244 | QFV71HJ-104ZM | TF.CAPACITOR |
| C245 | QETC1EM-106ZN | E.CAPACITOR |
| C246 | QFP82AJ-152 | PP.CAPACITOR |
| C247 | QCS31HJ-221Z | C.CAPACITOR |
| C250 | QETC1EM-106ZN | E.CAPACITOR |
| C703 | QETC1AM-477ZN | E.CAPACITOR |
| C704 | QETC1AM-477ZN | E.CAPACITOR |
| C705 | QETC1EM-106ZN | E.CAPACITOR |
| C706 | QETC1AM-107ZN | E.CAPACITOR |
| C707 | QETC1AM-107ZN | E.CAPACITOR |
| C901 | QETC1AM-477ZN | E.CAPACITOR |
| C902 | QETC1HM-105ZN | E.CAPACITOR |
| C903 | QCF31HP-103Z | C.CAPACITOR |
| C904 | QCF31HP-103Z | C.CAPACITOR |
| C907 | QETC1AM-477ZN | E.CAPACITOR |
| C908 | QETC1AM-477ZN | E.CAPACITOR |
| C913 | QETC1EM-106ZN | E.CAPACITOR |
| C914 | QCS31HJ-100Z | C.CAPACITOR |
| C915 | QETC1EM-106ZN | E.CAPACITOR |
| C916 | QETC1EM-106ZN | E.CAPACITOR |
| C917 | QETC1EM-106ZN | E.CAPACITOR |
| C918 | QFP82AJ-123 | PP.CAPACITOR |
| C920 | QFN31HJ-682Z | M.CAPACITOR |
| C921 | QFN31HJ-272Z | M.CAPACITOR |
| C922 | QFN31HJ-272Z | M.CAPACITOR |
| C924 | QETC1EM-107ZN | E.CAPACITOR |
| C930 | QFV71HJ-123ZM | TF.CAPACITOR |
| C931 | QFV71HJ-123ZM | TF.CAPACITOR |
| C932 | QFV71HJ-103ZM | TF.CAPACITOR |
| C933 | QFV71HJ-103ZM | TF.CAPACITOR |
| C934 | QFV71HJ-103ZM | TF.CAPACITOR |
| C935 | QFV71HJ-224ZM | TF.CAPACITOR |
| C936 | QETB1EM-224N | E.CAPACITOR |
| C937 | QETC1AM-107ZN | E.CAPACITOR |
| C938 | QETC1AM-107ZN | E.CAPACITOR |
| C939 | QCF31HP-103Z | C.CAPACITOR |
| C940 | QETC1EM-106ZN | E.CAPACITOR |
| C942 | QETB1EM-336N | E.CAPACITOR |
| C945 | QETC1HM-105ZN | E.CAPACITOR |
| D101 | HSS104TJ | SI DIODE |
| D102 | HSS104TJ | SI DIODE |
| D201 | HSS104TJ | SI DIODE |
| D202 | HSS104TJ | SI DIODE |
| D721 | HSS104TJ | SI DIODE |
| D722 | HSS104TJ | SI DIODE |
| D723 | HSS104TJ | SI DIODE |
| D724 | HSS104TJ | SI DIODE |
| D725 | HSS104TJ | SI DIODE |
| D901 | HSS104TJ | SI DIODE |
| D902 | HSS104TJ | SI DIODE |
| D903 | HSS104TJ | SI DIODE |
| D904 | HSS104TJ | SI DIODE |
| D905 | HSS104TJ | SI DIODE |
| D907 | HSS104TJ | SI DIODE |
| D908 | HSS104TJ | SI DIODE |
| IC701 | BA15218N | I.C |
| IC901 | AN6557 | I.C |
| IC902 | HA12088ANT | DOLBY NR I.C |

| REF. NO | PARTS NO. | PARTS NAME |
|---------|-----------------|-----------------|
| IC903 | BA15218N | I C |
| IC904 | UPC1297CA | I C |
| IC905 | LA2000S | I C |
| IC906 | BA15218N | I C |
| IC907 | BA15218N | I C |
| J901 | EMNOOTV-402A | PIN JACK |
| J902 | EMNOOTV-201A | PIN JACK |
| J903 | QMS6302-119G | JACK |
| L101 | VQZ0025-001S | FILTER |
| L102 | VQZ0013-001S | FILTER |
| L103 | VQP0001-183S | INDUCTOR |
| L104 | VQP0001-562S | INDUCTOR |
| L105 | VQH7001-011 | OSC COIL(BIAS) |
| L201 | VQZ0025-001S | FILTER |
| L202 | VQZ0013-001S | FILTER |
| L203 | VQP0001-183S | INDUCTOR |
| L204 | VQP0001-562S | INDUCTOR |
| L205 | VQH7001-011 | OSC COIL(BIAS) |
| L901 | VQH7001-010 | OSC COIL(BIAS) |
| L902 | VQP0001-102S | INDUCTOR |
| Q101 | 2SC1845(E,U)-T | TRANSISTOR |
| Q102 | 2SC1685(R,S)TA | TRANSISTOR |
| Q103 | 2SK301(R,S)TA | TRANSISTOR |
| Q104 | 2SC1685(R,S)TA | TRANSISTOR |
| Q105 | 2SC1685(R,S)TA | TRANSISTOR |
| Q107 | 2SC1685(R,S)TA | TRANSISTOR |
| Q108 | 2SC1685(R,S)TA | TRANSISTOR |
| Q110 | 2SC2001(L,K)-T | TRANSISTOR |
| Q112 | 2SC1685(R,S)TA | TRANSISTOR |
| Q114 | 2SC2001(L,K)-T | TRANSISTOR |
| Q201 | 2SC1845(E,U)-T | TRANSISTOR |
| Q202 | 2SC1685(R,S)TA | TRANSISTOR |
| Q203 | 2SK301(R,S)TA | TRANSISTOR |
| Q204 | 2SC1685(R,S)TA | TRANSISTOR |
| Q205 | 2SC1685(R,S)TA | TRANSISTOR |
| Q207 | 2SC1685(R,S)TA | TRANSISTOR |
| Q208 | 2SC1685(R,S)TA | TRANSISTOR |
| Q210 | 2SC2001(L,K)-T | TRANSISTOR |
| Q212 | 2SC1685(R,S)TA | TRANSISTOR |
| Q214 | 2SC2001(L,K)-T | TRANSISTOR |
| Q701 | 2SB772(Q,P) | TRANSISTOR |
| Q702 | 2SD882(Q,P) | TRANSISTOR |
| Q703 | 2SC945L(P,K)-T | TRANSISTOR |
| Q704 | 2SA733A(P,K)-T | TRANSISTOR |
| Q721 | 2SA733A(P,K)-T | TRANSISTOR |
| Q722 | 2SA733A(P,K)-T | TRANSISTOR |
| Q723 | 2SA733A(P,K)-T | TRANSISTOR |
| Q724 | 2SA733A(P,K)-T | TRANSISTOR |
| Q901 | 2SC1845(E,U)-T | TRANSISTOR |
| Q902 | 2SA992(F,E,U)-T | TRANSISTOR |
| Q903 | 2SC1685(R,S)TA | TRANSISTOR |
| Q906 | 2SC1685(R,S)TA | TRANSISTOR |
| Q907 | 2SC1685(R,S)TA | TRANSISTOR |
| Q908 | 2SC1685(R,S)TA | TRANSISTOR |
| Q909 | 2SC2001(L,K)-T | TRANSISTOR |
| Q910 | 2SC945L(P,K)-T | TRANSISTOR |
| Q911 | 2SC945L(P,K)-T | TRANSISTOR |
| Q914 | 2SC1685(R,S)TA | TRANSISTOR |
| Q915 | 2SA733A(P,K)-T | TRANSISTOR |
| Q917 | 2SA733A(P,K)-T | TRANSISTOR |
| Q919 | 2SA733A(P,K)-T | TRANSISTOR |
| R101 | QRD161J-152Y | CARBON RESISTOR |
| R102 | QRD161J-104Y | CARBON RESISTOR |
| R103 | QRD161J-394Y | CARBON RESISTOR |
| R104 | QRD161J-512Y | CARBON RESISTOR |
| R105 | QRD161J-682Y | CARBON RESISTOR |
| R106 | QRD161J-101Y | CARBON RESISTOR |
| R107 | QRD161J-105Y | CARBON RESISTOR |
| R108 | QRD161J-472Y | CARBON RESISTOR |
| R109 | QRD161J-102Y | CARBON RESISTOR |

| REF. NO | PARTS NO. | PARTS NAME |
|---------|--------------|-----------------|
| R110 | QRD161J-102Y | CARBON RESISTOR |
| R113 | QRD161J-104Y | CARBON RESISTOR |
| R114 | QRD161J-104Y | CARBON RESISTOR |
| R115 | QRD161J-222Y | CARBON RESISTOR |
| R116 | QRD161J-472Y | CARBON RESISTOR |
| R117 | QRD161J-562Y | CARBON RESISTOR |
| R118 | QRD161J-102Y | CARBON RESISTOR |
| R119 | QRD161J-332Y | CARBON RESISTOR |
| R120 | QRD161J-102Y | CARBON RESISTOR |
| R121 | QRD161J-683Y | CARBON RESISTOR |
| R122 | QRD161J-101Y | CARBON RESISTOR |
| R126 | QRD161J-223Y | CARBON RESISTOR |
| R127 | QRD161J-562Y | CARBON RESISTOR |
| R128 | QRD161J-123Y | CARBON RESISTOR |
| R129 | QRD161J-103Y | CARBON RESISTOR |
| R130 | QRD161J-102Y | CARBON RESISTOR |
| R131 | QRD161J-472Y | CARBON RESISTOR |
| R132 | QRD161J-151Y | CARBON RESISTOR |
| R134 | QRD161J-182Y | CARBON RESISTOR |
| R135 | QRD161J-152Y | CARBON RESISTOR |
| R136 | QRD161J-222Y | CARBON RESISTOR |
| R137 | QRD161J-152Y | CARBON RESISTOR |
| R138 | QRD161J-101Y | CARBON RESISTOR |
| R139 | QRD161J-472Y | CARBON RESISTOR |
| R140 | QRD161J-472Y | CARBON RESISTOR |
| R141 | QRD161J-333Y | CARBON RESISTOR |
| R142 | QRD161J-154Y | CARBON RESISTOR |
| R143 | QRD149J-100S | CARBON RESISTOR |
| R144 | QRD161J-103Y | CARBON RESISTOR |
| R149 | QRD161J-562Y | CARBON RESISTOR |
| R151 | QRD161J-273Y | CARBON RESISTOR |
| R152 | QRD161J-820Y | CARBON RESISTOR |
| R153 | QRD161J-154Y | CARBON RESISTOR |
| R154 | QRD161J-472Y | CARBON RESISTOR |
| R155 | QRD161J-472Y | CARBON RESISTOR |
| R160 | QRD161J-153Y | CARBON RESISTOR |
| R161 | QRD161J-183Y | CARBON RESISTOR |
| R162 | QRD161J-123Y | CARBON RESISTOR |
| R163 | QRD161J-683Y | CARBON RESISTOR |
| R164 | QRD161J-560Y | CARBON RESISTOR |
| R165 | QRD161J-223Y | CARBON RESISTOR |
| R166 | QRD161J-105Y | CARBON RESISTOR |
| R167 | QRD161J-104Y | CARBON RESISTOR |
| R170 | QRD161J-222Y | CARBON RESISTOR |
| R173 | QRD161J-332Y | CARBON RESISTOR |
| R176 | QRD161J-273Y | CARBON RESISTOR |
| R177 | QRD161J-332Y | CARBON RESISTOR |
| R178 | QRD161J-273Y | CARBON RESISTOR |
| R179 | QRD161J-104Y | CARBON RESISTOR |
| R201 | QRD161J-152Y | CARBON RESISTOR |
| R202 | QRD161J-104Y | CARBON RESISTOR |
| R203 | QRD161J-394Y | CARBON RESISTOR |
| R204 | QRD161J-512Y | CARBON RESISTOR |
| R205 | QRD161J-682Y | CARBON RESISTOR |
| R206 | QRD161J-101Y | CARBON RESISTOR |
| R207 | QRD161J-105Y | CARBON RESISTOR |
| R208 | QRD161J-472Y | CARBON RESISTOR |
| R209 | QRD161J-102Y | CARBON RESISTOR |
| R210 | QRD161J-102Y | CARBON RESISTOR |
| R213 | QRD161J-104Y | CARBON RESISTOR |
| R214 | QRD161J-104Y | CARBON RESISTOR |
| R215 | QRD161J-222Y | CARBON RESISTOR |
| R216 | QRD161J-472Y | CARBON RESISTOR |
| R217 | QRD161J-562Y | CARBON RESISTOR |
| R218 | QRD161J-102Y | CARBON RESISTOR |
| R219 | QRD161J-332Y | CARBON RESISTOR |
| R220 | QRD161J-102Y | CARBON RESISTOR |
| R221 | QRD161J-683Y | CARBON RESISTOR |
| R222 | QRD161J-101Y | CARBON RESISTOR |
| R226 | QRD161J-223Y | CARBON RESISTOR |

| REF. NO | PARTS NO. | PARTS NAME |
|---------|-----------|-----------------|
| | R227 | CARBON RESISTOR |
| | R228 | CARBON RESISTOR |
| | R229 | CARBON RESISTOR |
| | R230 | CARBON RESISTOR |
| | R231 | CARBON RESISTOR |
| | R232 | CARBON RESISTOR |
| | R234 | CARBON RESISTOR |
| | R235 | CARBON RESISTOR |
| | R236 | CARBON RESISTOR |
| | R237 | CARBON RESISTOR |
| | R238 | CARBON RESISTOR |
| | R239 | CARBON RESISTOR |
| | R240 | CARBON RESISTOR |
| | R241 | CARBON RESISTOR |
| | R242 | CARBON RESISTOR |
| | R243 | CARBON RESISTOR |
| | R244 | CARBON RESISTOR |
| | R249 | CARBON RESISTOR |
| | R251 | CARBON RESISTOR |
| | R252 | CARBON RESISTOR |
| | R253 | CARBON RESISTOR |
| | R254 | CARBON RESISTOR |
| | R255 | CARBON RESISTOR |
| | R260 | CARBON RESISTOR |
| | R261 | CARBON RESISTOR |
| | R262 | CARBON RESISTOR |
| | R263 | CARBON RESISTOR |
| | R264 | CARBON RESISTOR |
| | R265 | CARBON RESISTOR |
| | R266 | CARBON RESISTOR |
| | R267 | CARBON RESISTOR |
| | R270 | CARBON RESISTOR |
| | R273 | CARBON RESISTOR |
| | R276 | CARBON RESISTOR |
| | R277 | CARBON RESISTOR |
| | R278 | CARBON RESISTOR |
| | R279 | CARBON RESISTOR |
| ▲ | R701 | CARBON RESISTOR |
| ▲ | R702 | CARBON RESISTOR |
| ▲ | R703 | CARBON RESISTOR |
| | R705 | CARBON RESISTOR |
| | R706 | CARBON RESISTOR |
| | R707 | CARBON RESISTOR |
| | R708 | CARBON RESISTOR |
| | R709 | CARBON RESISTOR |
| ▲ | R710 | CARBON RESISTOR |
| ▲ | R711 | CARBON RESISTOR |
| ▲ | R713 | CARBON RESISTOR |
| ▲ | R714 | CARBON RESISTOR |
| ▲ | R715 | CARBON RESISTOR |
| | R716 | CARBON RESISTOR |
| | R717 | CARBON RESISTOR |
| | R721 | CARBON RESISTOR |
| | R722 | CARBON RESISTOR |
| | R723 | CARBON RESISTOR |
| | R724 | CARBON RESISTOR |
| | R725 | CARBON RESISTOR |
| | R726 | CARBON RESISTOR |
| | R727 | CARBON RESISTOR |
| | R728 | CARBON RESISTOR |
| | R729 | CARBON RESISTOR |
| | R730 | CARBON RESISTOR |
| | R731 | CARBON RESISTOR |
| | R732 | CARBON RESISTOR |
| | R733 | CARBON RESISTOR |
| | R734 | CARBON RESISTOR |
| | R735 | CARBON RESISTOR |
| | R901 | CARBON RESISTOR |
| | R902 | CARBON RESISTOR |
| | R903 | CARBON RESISTOR |

| REF. NO | PARTS NO. | PARTS NAME |
|---------|---------------|-----------------|
| | R904 | CARBON RESISTOR |
| | R905 | CARBON RESISTOR |
| | R906 | CARBON RESISTOR |
| | R907 | CARBON RESISTOR |
| | R908 | CARBON RESISTOR |
| | R909 | CARBON RESISTOR |
| | R911 | CARBON RESISTOR |
| | R912 | CARBON RESISTOR |
| | R915 | CARBON RESISTOR |
| | R916 | CARBON RESISTOR |
| | R919 | CARBON RESISTOR |
| | R920 | CARBON RESISTOR |
| | R921 | CARBON RESISTOR |
| | R929 | CARBON RESISTOR |
| | R930 | CARBON RESISTOR |
| | R931 | CARBON RESISTOR |
| | R932 | CARBON RESISTOR |
| | R933 | CARBON RESISTOR |
| | R934 | CARBON RESISTOR |
| | R935 | CARBON RESISTOR |
| | R936 | CARBON RESISTOR |
| | R937 | CARBON RESISTOR |
| | R938 | CARBON RESISTOR |
| ▲ | R939 | CARBON RESISTOR |
| ▲ | R940 | CARBON RESISTOR |
| | R941 | CARBON RESISTOR |
| | R942 | CARBON RESISTOR |
| | R946 | CARBON RESISTOR |
| | R947 | CARBON RESISTOR |
| | R948 | CARBON RESISTOR |
| | R949 | CARBON RESISTOR |
| | R950 | CARBON RESISTOR |
| | R951 | CARBON RESISTOR |
| | R952 | CARBON RESISTOR |
| | R953 | CARBON RESISTOR |
| | R954 | CARBON RESISTOR |
| | R957 | CARBON RESISTOR |
| | R958 | CARBON RESISTOR |
| | R961 | CARBON RESISTOR |
| | R962 | CARBON RESISTOR |
| | R963 | CARBON RESISTOR |
| | R964 | CARBON RESISTOR |
| | R965 | CARBON RESISTOR |
| | R968 | CARBON RESISTOR |
| | R969 | CARBON RESISTOR |
| | R970 | CARBON RESISTOR |
| | R971 | CARBON RESISTOR |
| | R972 | CARBON RESISTOR |
| | R973 | CARBON RESISTOR |
| | R980 | CARBON RESISTOR |
| | R981 | CARBON RESISTOR |
| | R986 | CARBON RESISTOR |
| | S901 | PUSH SWITCH |
| | S902 | PUSH SWITCH |
| | S903 | PUSH SWITCH |
| | TH101 | THERMISTER |
| | TH201 | THERMISTER |
| | VR101 | V.RESISTOR |
| | VR102 | V.RESISTOR |
| | VR103 | V.RESISTOR |
| | VR104 | V.RESISTOR |
| | VR201 | V.RESISTOR |
| | VR202 | V.RESISTOR |
| | VR203 | V.RESISTOR |
| | VR204 | V.RESISTOR |
| | VR901 | V.RESISTOR |
| | VR902 | V.RESISTOR |
| | VR903 | V.RESISTOR |
| | VR904 | V.RESISTOR |
| | QVD8A8A-015FA | V.RESISTOR |
| | QVAA16W-V02 | V.RESISTOR |
| | QVAB26A-V01 | V.RESISTOR |
| | QVPA601-502 | V.RESISTOR |

Power Supply/Mechanism Control Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

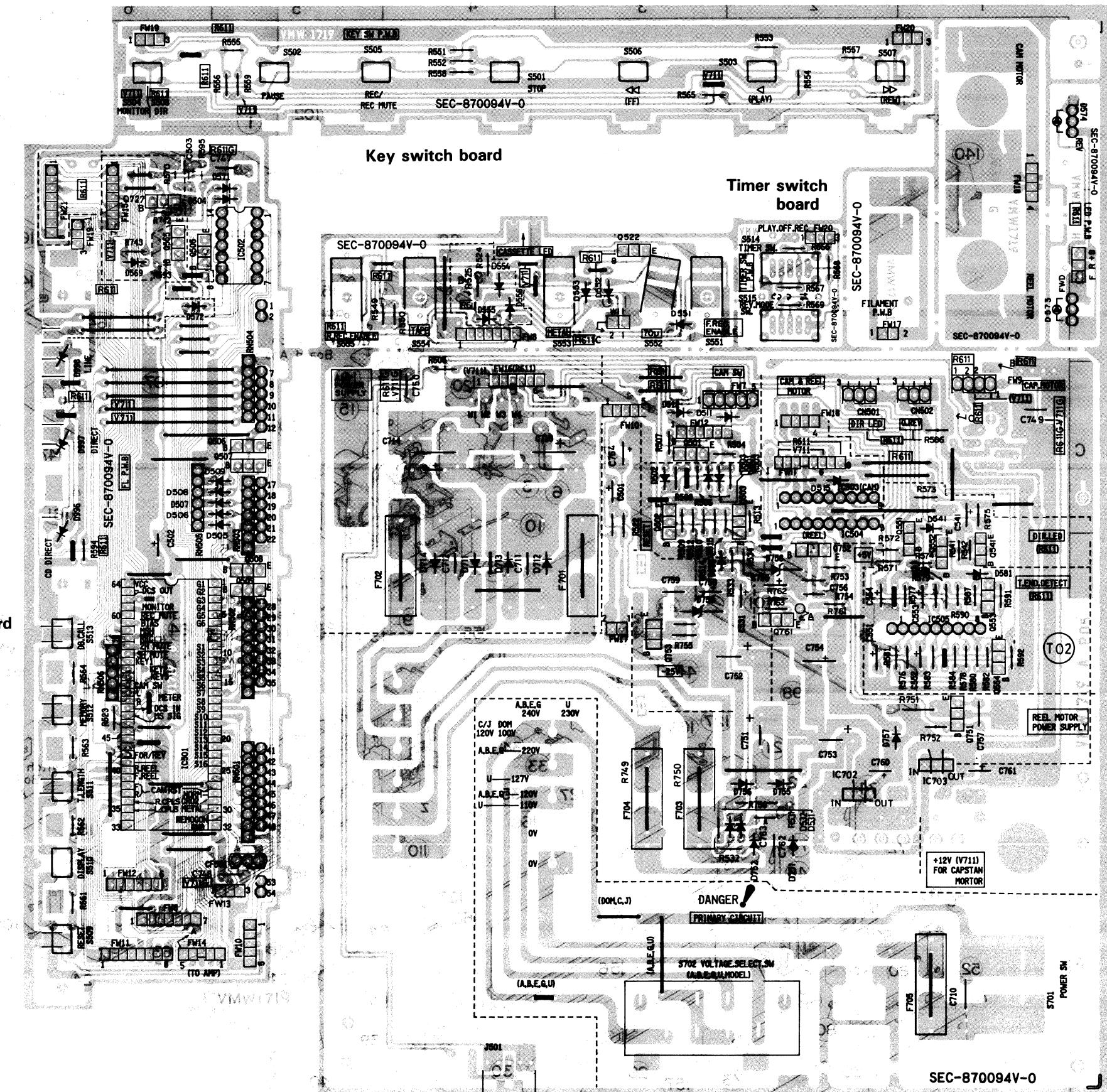
| △ REF. NO | PARTS NO. | PARTS NAME |
|-----------|---------------|----------------------|
| C501 | QETC1AM-107ZN | E.CAPACITOR |
| C502 | QEK61CM-107ZN | E.CAPACITOR |
| C531 | QETC1HM-474ZN | E.CAPACITOR |
| C541 | QETC1EM-106ZN | E.CAPACITOR |
| C551 | QETC1HM-475ZN | E.CAPACITOR |
| C552 | QETC1AM-477ZN | E.CAPACITOR |
| C553 | QETC1AM-107ZN | E.CAPACITOR |
| C554 | QETC1AM-107ZN | E.CAPACITOR |
| △ C710 | QFZ9010-103 | M.CAPACITOR(A/B/E/G) |
| △ C710 | QCZ9015-103 | C.CAPACITOR(U) |
| △ C710 | QCZ9014-103 | C.CAPACITOR(C/J) |
| C711 | QCF31HP-103Z | C.CAPACITOR |
| C712 | QCF31HP-103Z | C.CAPACITOR |
| C713 | QETB1EM-338N | E.CAPACITOR |
| C714 | QETB1EM-338N | E.CAPACITOR |
| C747 | QCC31EM-104ZV | C.CAPACITOR |
| C749 | QCF31HP-473Z | C.CAPACITOR |
| C750 | QCS31HJ-271Z | C.CAPACITOR |
| C751 | QETB1EM-477N | E.CAPACITOR |
| C752 | QETB1VM-477N | E.CAPACITOR |
| C753 | QETB1EM-108N | E.CAPACITOR |
| C754 | QETB1AM-109N | E.CAPACITOR |
| C755 | QETC1AM-107ZN | E.CAPACITOR |
| C756 | QCF31HP-103Z | C.CAPACITOR |
| C757 | QCF31HP-103Z | C.CAPACITOR |
| C758 | QETC1EM-107ZN | E.CAPACITOR |
| C759 | QCF31HP-103Z | C.CAPACITOR |
| C760 | QETC1HM-106ZN | E.CAPACITOR |
| C762 | QCF31HP-103Z | C.CAPACITOR |
| C763 | QCF31HP-103Z | C.CAPACITOR |
| C764 | QETC1HM-106ZN | E.CAPACITOR |
| D501 | HSS104TJ | SI DIODE |
| D502 | HSS104TJ | SI DIODE |
| D503 | HSS104TJ | SI DIODE |
| D504 | HSS104TJ | SI DIODE |
| D505 | HSS104TJ | SI DIODE |
| D506 | HSS104TJ | SI DIODE |
| D507 | HSS104TJ | SI DIODE |
| D508 | HSS104TJ | SI DIODE |
| D509 | HSS104TJ | SI DIODE |
| D511 | HSS104TJ | SI DIODE |
| D512 | HSS104TJ | SI DIODE |
| △ D515 | 11E1-TB2 | SI DIODE |
| D531 | HSS104TJ | SI DIODE |
| D532 | HSS104TJ | SI DIODE |
| D533 | HSS104TJ | SI DIODE |
| D541 | HSS104TJ | SI DIODE |
| D551 | HSS104TJ | SI DIODE |
| D552 | HSS104TJ | SI DIODE |
| D553 | HSS104TJ | SI DIODE |
| D554 | HSS104TJ | SI DIODE |
| D555 | HSS104TJ | SI DIODE |
| D556 | HSS104TJ | SI DIODE |
| D571 | HSS104TJ | SI DIODE |
| D572 | HSS104TJ | SI DIODE |
| D573 | LD-001MG | LED |
| D574 | LD-001MG | LED |
| D581 | HSS104TJ | SI DIODE |
| △ D711 | 11E1-TB2 | SI DIODE |
| △ D712 | 11E1-TB2 | SI DIODE |
| △ D713 | 11E1-TB2 | SI DIODE |
| △ D714 | 11E1-TB2 | SI DIODE |
| △ D751 | 11E1-TB2 | SI DIODE |
| △ D752 | 11E1-TB2 | SI DIODE |
| △ D755 | 11E1-TB2 | SI DIODE |
| △ D756 | 11E1-TB2 | SI DIODE |
| △ D757 | 11E1-TB2 | SI DIODE |
| △ D758 | RD5.6E(B3) | ZENER DIODE |
| △ D759 | RD24E(B3) | ZENER DIODE |

| △ REF. NO | PARTS NO. | PARTS NAME |
|-----------|----------------|------------------|
| D998 | LN21RCPSL(0)J3 | LED |
| FL501 | BG-502GK | FL TUBE |
| IC501 | MB88515B-549T | I C |
| IC502 | UPD4069UBC | I C |
| IC503 | BA6208A | I C |
| IC504 | BA6208A | I C |
| IC505 | BA15218N | I C |
| △ IC702 | UPC78M10H | I C |
| J501 | QMS3533-001 | JACK |
| Q501 | 2SC945L(P,K)-T | TRANSISTOR |
| Q502 | 2SC945L(P,K)-T | TRANSISTOR |
| Q503 | 2SC945L(P,K)-T | TRANSISTOR |
| Q505 | 2SC945L(P,K)-T | TRANSISTOR |
| Q506 | UN4211TA | TRANSISTOR |
| Q507 | UN4211TA | TRANSISTOR |
| Q508 | UN4211TA | TRANSISTOR |
| Q509 | UN4211TA | TRANSISTOR |
| Q522 | 2SC945L(P,K)-T | TRANSISTOR |
| Q541 | 2SC945L(P,K)-T | TRANSISTOR |
| Q551 | 2SC945L(P,K)-T | TRANSISTOR |
| Q552 | 2SC945L(P,K)-T | TRANSISTOR |
| Q553 | 2SC1685(R,S)TA | TRANSISTOR |
| Q554 | 2SC1685(R,S)TA | TRANSISTOR |
| Q555 | 2SC945L(P,K)-T | TRANSISTOR |
| Q751 | 2SC2001(L,K)-T | TRANSISTOR |
| Q752 | 2SC2001(L,K)-T | TRANSISTOR |
| Q753 | 2SB605(LA,KA) | TRANSISTOR |
| RN501 | QRB085J-473 | NETWORK RESIST |
| RN502 | QRB085J-473 | NETWORK RESIST |
| RN503 | QRB065J-223 | NETWORK RESIST |
| RN504 | QRB055J-473 | NETWORK RESIST |
| RN505 | QRB055J-223 | NETWORK RESIST |
| RN506 | QRB045J-682 | NETWORK RESISTOR |
| R503 | QRD161J-334Y | CARBON RESISTOR |
| R504 | QRD161J-473Y | CARBON RESISTOR |
| R505 | QRD161J-101Y | CARBON RESISTOR |
| R506 | QRD161J-471Y | CARBON RESISTOR |
| R507 | QRD161J-102Y | CARBON RESISTOR |
| R508 | QRD161J-471Y | CARBON RESISTOR |
| R509 | QRD161J-473Y | CARBON RESISTOR |
| R510 | QRD161J-222Y | CARBON RESISTOR |
| R512 | QRD161J-102Y | CARBON RESISTOR |
| R513 | QRD161J-471Y | CARBON RESISTOR |
| R514 | QRD161J-102Y | CARBON RESISTOR |
| R515 | QRD161J-102Y | CARBON RESISTOR |
| R522 | QRD161J-271Y | CARBON RESISTOR |
| R523 | QRD161J-103Y | CARBON RESISTOR |
| R524 | QRD161J-103Y | CARBON RESISTOR |
| R525 | QRD161J-223Y | CARBON RESISTOR |
| R531 | QRD161J-103Y | CARBON RESISTOR |
| R532 | QRD161J-103Y | CARBON RESISTOR |
| R533 | QRD161J-473Y | CARBON RESISTOR |
| R534 | QRD161J-473Y | CARBON RESISTOR |
| R541 | QRD161J-103Y | CARBON RESISTOR |
| R542 | QRD161J-103Y | CARBON RESISTOR |
| R549 | QRD161J-821Y | CARBON RESISTOR |
| R550 | QRD161J-681Y | CARBON RESISTOR |
| R551 | QRD161J-102Y | CARBON RESISTOR |
| R552 | QRD161J-122Y | CARBON RESISTOR |
| R553 | QRD161J-182Y | CARBON RESISTOR |
| R554 | QRD161J-752Y | CARBON RESISTOR |
| R555 | QRD161J-102Y | CARBON RESISTOR |
| R556 | QRD161J-122Y | CARBON RESISTOR |
| R557 | QRD161J-182Y | CARBON RESISTOR |
| R558 | QRD161J-272Y | CARBON RESISTOR |
| R561 | QRD161J-102Y | CARBON RESISTOR |
| R562 | QRD161J-122Y | CARBON RESISTOR |
| R563 | QRD161J-182Y | CARBON RESISTOR |
| R564 | QRD161J-272Y | CARBON RESISTOR |
| R565 | QRD161J-822Y | CARBON RESISTOR |

LED board

| REF. NO | PARTS NO. | PARTS NAME |
|---------|---------------|----------------------------|
| R566 | QRD161J-472Y | CARBON RESISTOR |
| R567 | QRD161J-273Y | CARBON RESISTOR |
| R568 | QRD161J-822Y | CARBON RESISTOR |
| R569 | QRD161J-273Y | CARBON RESISTOR |
| R571 | QRD161J-103Y | CARBON RESISTOR |
| R572 | QRD161J-103Y | CARBON RESISTOR |
| R573 | QRD161J-102Y | CARBON RESISTOR |
| R574 | QRD161J-103Y | CARBON RESISTOR |
| R575 | QRD161J-471Y | CARBON RESISTOR |
| R576 | QRD161J-104Y | CARBON RESISTOR |
| R577 | QRD161J-104Y | CARBON RESISTOR |
| R578 | QRD161J-102Y | CARBON RESISTOR |
| R579 | QRD161J-104Y | CARBON RESISTOR |
| R580 | QRD161J-105Y | CARBON RESISTOR |
| R581 | QRD161J-103Y | CARBON RESISTOR |
| R582 | QRD161J-103Y | CARBON RESISTOR |
| R583 | QRD161J-152Y | CARBON RESISTOR |
| R584 | QRD161J-151Y | CARBON RESISTOR |
| R586 | QRD161J-391Y | CARBON RESISTOR |
| R587 | QRD161J-122Y | CARBON RESISTOR |
| R588 | QRD161J-332Y | CARBON RESISTOR |
| R590 | QRD161J-103Y | CARBON RESISTOR |
| R591 | QRD161J-102Y | CARBON RESISTOR |
| R592 | QRD161J-104Y | CARBON RESISTOR |
| R593 | QRD161J-103Y | CARBON RESISTOR |
| R594 | QRD161J-393Y | CARBON RESISTOR |
| R751 | QRD149J-6R8S | CARBON RESISTOR |
| R752 | QRD161J-471Y | CARBON RESISTOR |
| R753 | QRD161J-221Y | CARBON RESISTOR |
| R754 | QRD161J-471Y | CARBON RESISTOR |
| R755 | QRD161J-102Y | CARBON RESISTOR |
| R756 | QRD149J-4R7S | CARBON RESISTOR |
| S501 | QSP1A11-V01 | TACT SWITCH |
| S502 | QSP1A11-V01 | TACT SWITCH |
| S503 | QSP1A11-V01 | TACT SWITCH |
| S505 | QSP1A11-V01 | TACT SWITCH |
| S506 | QSP1A11-V01 | TACT SWITCH |
| S507 | QSP1A11-V01 | TACT SWITCH |
| S508 | QSP1A11-V01M | TACT SWITCH |
| S509 | QSP1A11-V01 | TACT SWITCH |
| S510 | QSP1A11-V01 | TACT SWITCH |
| S511 | QSP1A11-V01 | TACT SWITCH |
| S512 | QSP1A11-V01 | TACT SWITCH |
| S513 | QSP1A11-V01 | TACT SWITCH |
| S514 | QSS7A23-V05 | SLIDE SWITCH |
| S515 | QSS7A23-V05 | SLIDE SWITCH |
| S551 | VSH1140-002 | LEAF SWITCH |
| S552 | VSH1140-002 | LEAF SWITCH |
| S553 | VSH1140-002 | LEAF SWITCH |
| S554 | VSH1140-002 | LEAF SWITCH |
| S555 | VSH1140-002 | LEAF SWITCH |
| S702 | QSS2325-114 | SLIDE SWITCH |
| S702 | QSS2325-114BS | SLIDE SWITCH(B VERSION) |
| S702 | OSS2325-112 | SLIDE SWITCH(110/127/230V) |
| | VMZ0043-001S | FUSE CLAMP |
| CF501 | EFO-FC6004A5 | CERA LOCK |
| CP501 | QMV5005-003 | CONNECTOR |
| CP502 | QMV5005-003 | CONNECTOR |

Power Supply/Mechanism Control Board

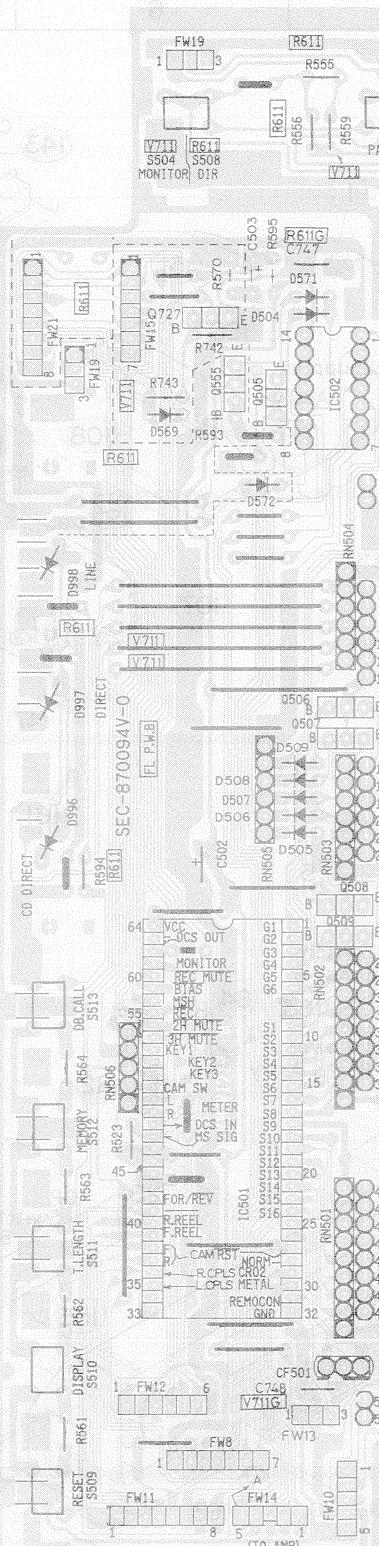


LED board

■ Power Supply/Mechanism Control Board

| REF. NO | PARTS NO. | PARTS NAME |
|---------|---------------|----------------------------|
| R566 | QRD161J-472Y | CARBON RESISTOR |
| R567 | QRD161J-273Y | CARBON RESISTOR |
| R568 | QRD161J-822Y | CARBON RESISTOR |
| R569 | QRD161J-273Y | CARBON RESISTOR |
| R571 | QRD161J-103Y | CARBON RESISTOR |
| R572 | QRD161J-103Y | CARBON RESISTOR |
| R573 | QRD161J-102Y | CARBON RESISTOR |
| R574 | QRD161J-103Y | CARBON RESISTOR |
| R575 | QRD161J-471Y | CARBON RESISTOR |
| R576 | QRD161J-104Y | CARBON RESISTOR |
| R577 | QRD161J-104Y | CARBON RESISTOR |
| R578 | QRD161J-102Y | CARBON RESISTOR |
| R579 | QRD161J-104Y | CARBON RESISTOR |
| R580 | QRD161J-105Y | CARBON RESISTOR |
| R581 | QRD161J-103Y | CARBON RESISTOR |
| R582 | QRD161J-103Y | CARBON RESISTOR |
| R583 | QRD161J-152Y | CARBON RESISTOR |
| R584 | QRD161J-151Y | CARBON RESISTOR |
| R586 | QRD161J-391Y | CARBON RESISTOR |
| R587 | QRD161J-122Y | CARBON RESISTOR |
| R588 | QRD161J-332Y | CARBON RESISTOR |
| R590 | QRD161J-103Y | CARBON RESISTOR |
| R591 | QRD161J-102Y | CARBON RESISTOR |
| R592 | QRD161J-104Y | CARBON RESISTOR |
| R593 | QRD161J-103Y | CARBON RESISTOR |
| R594 | QRD161J-393Y | CARBON RESISTOR |
| R751 | QRD149J-6R8S | CARBON RESISTOR |
| R752 | QRD161J-471Y | CARBON RESISTOR |
| R753 | QRD161J-221Y | CARBON RESISTOR |
| R754 | QRD161J-471Y | CARBON RESISTOR |
| R755 | QRD161J-102Y | CARBON RESISTOR |
| R756 | QRD149J-4R7S | CARBON RESISTOR |
| S501 | QSP1A11-V01 | TACT SWITCH |
| S502 | QSP1A11-V01 | TACT SWITCH |
| S503 | QSP1A11-V01 | TACT SWITCH |
| S505 | QSP1A11-V01 | TACT SWITCH |
| S506 | QSP1A11-V01 | TACT SWITCH |
| S507 | QSP1A11-V01 | TACT SWITCH |
| S508 | QSP1A11-V01M | TACT SWITCH |
| S509 | QSP1A11-V01 | TACT SWITCH |
| S510 | QSP1A11-V01 | TACT SWITCH |
| S511 | QSP1A11-V01 | TACT SWITCH |
| S512 | QSP1A11-V01 | TACT SWITCH |
| S513 | QSP1A11-V01 | TACT SWITCH |
| S514 | QSS7A23-V05 | SLIDE SWITCH |
| S515 | QSS7A23-V05 | SLIDE SWITCH |
| S551 | VSH1140-002 | LEAF SWITCH |
| S552 | VSH1140-002 | LEAF SWITCH |
| S553 | VSH1140-002 | LEAF SWITCH |
| S554 | VSH1140-002 | LEAF SWITCH |
| S555 | VSH1140-002 | LEAF SWITCH |
| S702 | QSS2325-114 | SLIDE SWITCH |
| S702 | QSS2325-114BS | SLIDE SWITCH(B VERSION) |
| S702 | QSS2325-112 | SLIDE SWITCH(110/127/230V) |
| CF501 | VMZ0043-001S | FUSE CLAMP |
| CP501 | EFO-FC6004A5 | CERA LOCK |
| CP501 | QMV5005-003 | CONNECTOR |
| CP502 | QMV5005-003 | CONNECTOR |

Display board



11 Exploded View of Enclosure Assembly Parts and Parts List

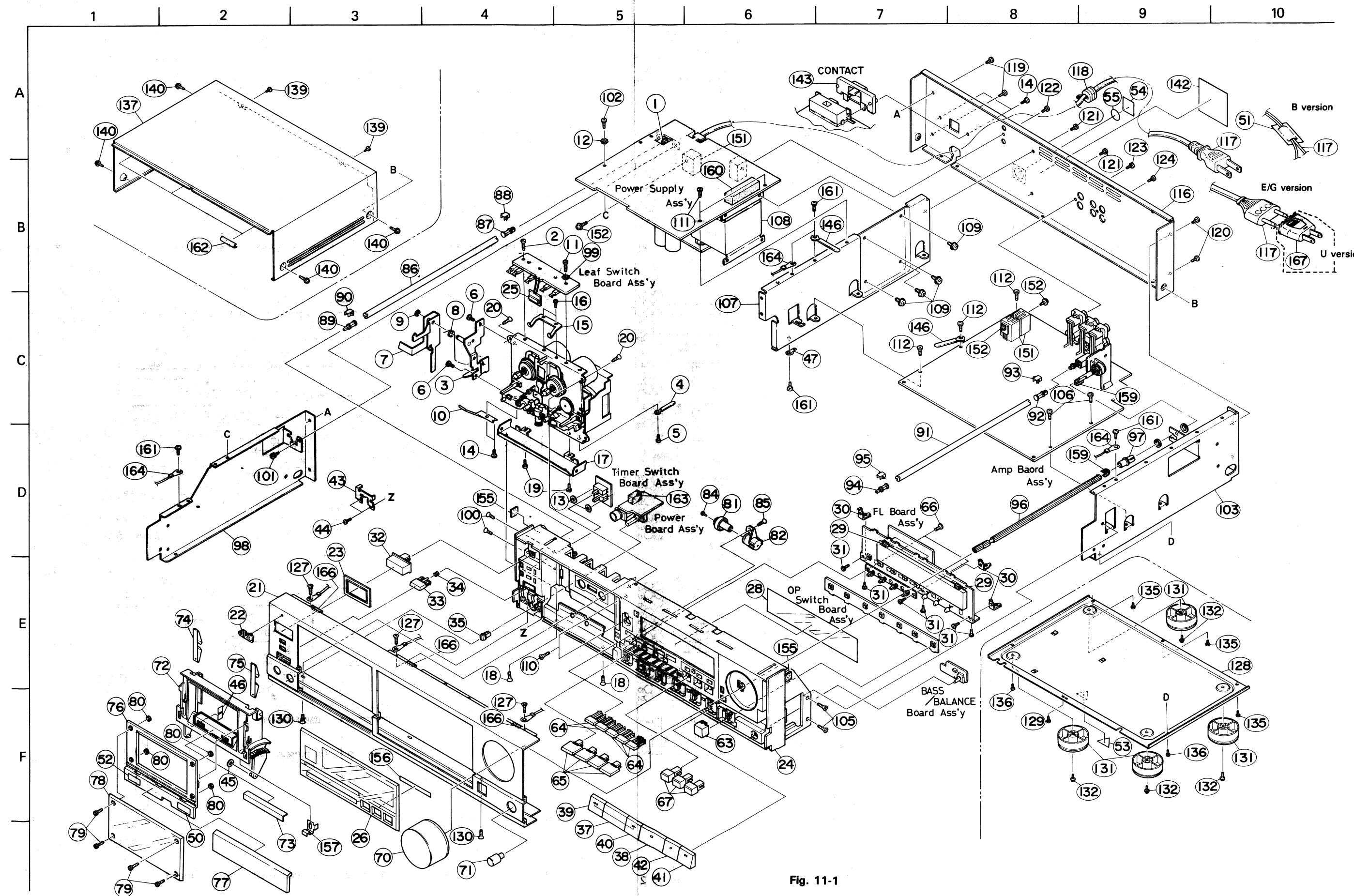


Fig. 11-1

Enclosure Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | Q.TY |
|------|---------------|--------------|-----------------|----------------------|------|
| △ | 1 | QSP1106-004 | PUSH SWITCH | S701 | 1 |
| | 2 | SDST2608Z | SCREW | FOR LEAF SWITCH | 1 |
| | 3 | VKL6200-00A | EJECT BKT ASS'Y | | 1 |
| | 4 | VKZ4001-007 | WIRE CLAMP | | 1 |
| | 5 | SDST2604Z | SCREW | FOR HEAD WIRE | 1 |
| | 6 | SDST2606Z | SCREW | FOR EJECT BRACKET | 2 |
| | 7 | VKL3908-001 | EJECT LEVER | | 1 |
| | 8 | VWK4688-002 | TORSION SPRING | | 1 |
| | 9 | REE2500X | E RING | FOR EJECT LEVER | 1 |
| | 10 | VKY4497-003 | HOLDER SPRING | | 1 |
| | 11 | SDST2610Z | SCREW | FOR LEAF SWITCH | 1 |
| | 12 | WBS3000N | WASHER | | 1 |
| | 13 | VYSS2R2-016 | SPACER | | 2 |
| | 14 | SDST2603Z | SCREW | FOR HOLDER SPRING | 2 |
| | 15 | VKY4279-001 | PACK SPRING | | 1 |
| | 16 | SDST2604Z | SCREW | FOR PACK SPRING | 2 |
| | 17 | VKL3883-001 | MECHA.BRACKET | | 1 |
| | 18 | SSST3006Z | SCREW | FOR M.BRACKET | 2 |
| | 19 | SDST2604Z | SCREW | FOR MECHANISM(BOTTOM | 2 |
| | 20 | SSSF3010Z | SCREW | FOR FRONT PANEL | 2 |
| | 21 | VJC1618-002 | FRONT PLATE | | 1 |
| | 22 | PQ42376-001 | JVC MARK | | 1 |
| | 23 | E73878-002 | P.BUTTON ESCUTC | | 1 |
| 24-1 | VJC1619-003 | FRONT PANEL | | TD-R611A/B/C/E/G/U | 1 |
| 24-2 | VJC1619-004UL | FRONT PANEL | | TD-R611J | 1 |
| | 25 | LD-702YU | L.E.D | | 1 |
| | 26 | VJK3397-006 | FINDER | | 1 |
| | 29 | VYSH105-034 | SPACER | | 2 |
| | 30 | VYH4638-001 | BRACKET | | 3 |
| | 31 | SDST3004Z | SCREW | | 6 |
| | 32 | E73877-001 | PUSH BUTTON | FOR POWER | 1 |
| | 33 | VXP4349-00A | PUSH BUTTON | | 1 |
| | 34 | VKW3001-063 | COMP.SPRING | FOR PUSH BUTTON | 1 |
| | 35 | E72431-005 | KNOB | FOR OUTPUT | 1 |
| | 37 | VXP3221-001 | MECHA BUTTON | FOR PLAY | 1 |
| | 38 | VXP3221-002 | MECHA BUTTON | FOR STOP | 1 |
| | 39 | VXP3221-003 | MECHA BUTTON | FOR REW | 1 |
| | 40 | VXP3221-004 | MECHA BUTTON | FOR FF | 1 |
| | 41 | VXP3221-005 | MECHA BUTTON | FOR PAUSE | 1 |
| | 42 | VXP3221-006 | MECHA BUTTON | REC/REC MUTE | 1 |
| | 43 | VKL6350-002 | KNOB BRACKET | | 1 |
| | 44 | SDSF2606Z | SCREW | FOR KNOB BRACKET | 2 |
| | 45 | Q03093-817 | WASHER | FOR CASSETTE HOLDER | 1 |
| | 46 | VYSA1R4-058 | SPACER | FOR CASSETTE DOOR | 2 |
| | 47 | 50242-2 | LUG TERMINAL | | 1 |
| | 50 | TJL000420-01 | CAUTION LABEL | TD-R611B | 1 |
| | 51 | QZL1002-003 | WARNING LABEL | TD-R611B | 1 |
| | 52 | VNC5004-001 | MARK STICKER | TD-R611B/E/G | 1 |
| | 53 | VND4113-001 | G.CAUTION CARD | TD-R611B/J | 1 |
| | 54 | T44362-001 | CSA LABEL | TD-R611C | 1 |
| | 55 | VND4037-002 | F MARK | TD-R611G | 1 |
| | 63 | VXP4686-002 | PUSH BUTTON | FOR DIRECTION | 1 |
| | 64 | VXP4575-001 | PUSH BUTTON | FOR RESET | 5 |
| | 65 | E71268-002 | PUSH KNOB | FOR NR SERECT | 4 |
| | 66 | SDSF2608Z | SCREW | FOR FOR NR SWITCH | 2 |

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY |
|--------|----------------|-----------------|--------------------|-----|
| 67 | VXP4307-010 | PUSH BUTTON | B.SKIP/REPEAT/CD | 3 |
| 70 | E302479-004 | VOLUME KNOB | FOR INPUT | 1 |
| 71 | VXL4166-003 | KNOB | FOR BALANCE | 1 |
| 72 | VJT2153-001 | CASSETTE DOOR | | 1 |
| 73 | VJD5081-005 | HOLDER PLATE | | 1 |
| 74 | VKY4382-007 | CASSETTE SPRING | FOR LEFT SIDE | 1 |
| 75 | VKY4382-008 | CASSETTE SPRING | FOR RIGHT SIDE | 1 |
| 76 | VJT3221-001 | CASSETTE LID | | 1 |
| 77 | VO4062-001 | SIEMENS PLUG | TD-R611U | 1 |
| | VJT3222-003 | LID PLATE | | 1 |
| 78 | VJT3223-003 | CASSETTE FINDER | | 1 |
| 79 | BYS3006M | S.BOLT | FOR CASSETTE LID | 4 |
| 80 | NTB3000 | NUT | FOR CASSETTE LID | 4 |
| 81 | VYH4769-002 | GEAR | GREACE NO.G332 | 1 |
| 82 | VYH5033-002 | DAMPER HOLDER | | 1 |
| 84 | SBSB2004Z | SCREW | FOR GEAR | 1 |
| 85 | SSSF3010Z | SCREW | FOR DAMPER HOLDER | 1 |
| 86 | VKS4989-002 | REMOTE BAR | FOR POWER SWITCH | 1 |
| 87 | VKS4990-001 | SWITCH CONTACT | FOR POWER SWITCH | 1 |
| 88 | VKL6207-001 | STOPPER | FOR POWER SWITCH | 1 |
| 89 | VKS4991-001 | BUTTON CONTACT | FOR POWER SWITCH | 1 |
| 90 | VKL6207-001 | STOPPER | FOR POWER SWITCH | 1 |
| 91 | VKS4989-002 | REMOTE BAR | FOR CD SELECT | 1 |
| 92 | VKS4990-001 | SWITCH CONTACT | FOR CD SELECT | 1 |
| 93 | VKL6207-001 | STOPPER | FOR CD SELECT | 1 |
| 94 | VKS4991-001 | BUTTON CONTACT | FOR CD SELECT | 1 |
| 95 | VKL6207-001 | STOPPER | FOR CD SELECT | 1 |
| 96 | VKH5027-002 | VOLUME SHAFT | | 1 |
| 97 | VKS4992-002 | VOLUME CONTACT | | 1 |
| 98 | VKL3884-001 | SIDE CHASSIS(L) | | 1 |
| 99 | WBS2600N | WASHER | FOR LEAF SWITCH | 1 |
| ▲ F702 | QMF51A2-R63 | FUSE | TD-R611A/E/G | 2 |
| ▲ F704 | QMF51E2-R63BS | FUSE | TD-R611B | 2 |
| ▲ | QMF51A2-1R0 | FUSE | TD-R611A/E/G | 2 |
| ▲ | QMF51E2-1ROBS | FUSE | TD-R611B | 2 |
| 100 | SSST3006Z | SCREW | FOR LEFT SIDE | 2 |
| 101 | LPSP3006Z | SCREW | FOR POWER SWITCH | 1 |
| 102 | SDST3006Z | SCREW | FOR P.SUPPLY BOARD | 1 |
| 103 | VKL3891-001 | SIDE CHASSIS(R) | | 1 |
| 105 | SSST3006Z | SCREW | FOR RIGHT SIDE | 2 |
| 106 | SDST3006Z | SCREW | FOR AMP. BOARD | 2 |
| 107 | VKL3892-001 | CENTER CHASSIS | | 1 |
| ▲ 108 | VTP60A9-011B | POWER TRANS | T1 TD-R611C/J | 1 |
| ▲ | VTP60C9-011B | POWER TRANS | T1 TD-R611A/E/G | 1 |
| ▲ | VTP60C9-011BBS | POWER TRANS | T1 TD-R611B | 1 |
| ▲ | VTP60G9-011B | POWER TRANS | T1 TD-R611U | 1 |
| 109 | SDSB4008M | SCREW | FOR P.TRANSFORMER | 4 |
| 110 | SSST3008Z | SCREW | | 2 |
| 111 | SDST3006Z | SCREW | FOR P.SUPPLY BOARD | 2 |
| 112 | SDST3006Z | SCREW | FOR AMP.BOARD | 3 |
| 116 | VJC2301-003 | REAR PANEL | TD-R611C/J | 1 |
| ▲ 117 | VJC2301-004 | REAR PANEL | TD-R611A/B/E/G/U | 1 |
| ▲ | QMP1900-200 | POWER CORD | TD-R611C/J | 1 |
| ▲ | QMP2560-200 | POWER CORD | TD-R611A | 1 |

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY |
|------|---------------|-----------------|---------------------|-----|
| 117 | QMP3900-200 | POWER CORD | TD-R611E/G | 1 |
| | QMP7380-200 | POWER CORD | TD-R611U | 1 |
| | QMP9017-008BS | POWER CORD | TD-R611B | 1 |
| 118 | QHS3876-162 | S.R.BUSHING | TD-R611A/C/E/G/J/U | 1 |
| | QHS3876-162BS | S.R.BUSHING | TD-R611B | 1 |
| 119 | SDST3006M | SCREW | FOR REAR | 2 |
| 120 | SDST3006M | SCREW | FOR REAR | 2 |
| 121 | SDST3006M | SCREW | FOR REAR | 2 |
| 122 | SDSF3010M | SCREW | FOR DCS JACK | 1 |
| 123 | SDSF3010M | SCREW | FOR PIN JACK | 1 |
| 124 | SDSF3010M | SCREW | FOR PIN JACK | 1 |
| 127 | SSSF3010Z | SCREW | | 3 |
| 128 | VJC1547-005 | BOTTOM COVER | | 1 |
| 129 | SDSF3010Z | SCREW | FOR BOTTOM | 1 |
| 130 | SDSF3010Z | SCREW | FOR FRONT PLATE | 2 |
| 131 | E74205-002 | FOOT ASS'Y | | 4 |
| 132 | GBST3008Z | TH.TAP.SCREW | FOR FOOT | 4 |
| 135 | SDST3006Z | SCREW | FOR BOTTOM(REAR) | 3 |
| 136 | SDST3006Z | SCREW | FOR BOTTOM (SIDE) | 2 |
| 137 | VJC1622-002 | TOP COVER | | 1 |
| 139 | SDST3006M | SCREW | FOR TOP COVER | 2 |
| 140 | VKZ3001-004 | SPECIAL SCREW | FOR TOP COVER | 2 |
| | VKZ3001-004 | SPECIAL SCREW | FOR TOP COVER | 2 |
| 141 | SDSF3008M | SCREW | TD-R611A/B/E/G/U | 2 |
| 142 | VYN2206-002PA | NAME PLATE | TD-R611A/B/G | 1 |
| | VYN2206-005PA | NAME PLATE | TD-R611E | 1 |
| | VYN2206-006PA | NAME PLATE | TD-R611J | 1 |
| | VYN2206-007PA | NAME PLATE | TD-R611U | 1 |
| 143 | VKS5011-001 | VOLTAGE CONTACT | TD-R611A/E/G/U | 1 |
| 146 | VKZ4001-011 | WIRE HOLDER | | 2 |
| 151 | VMH4015-H25B | HEAT SINK | FOR Q701/Q702 | 2 |
| | VMH4015-H25B | HEAT SINK | FOR IC702 | 1 |
| 152 | LPSP3008Z | ASS'Y SCREW | FOR Q701/Q702 | 2 |
| | LPSP3008Z | ASS'Y SCREW | FOR IC702 | 1 |
| 155 | VYSR101-015 | SPACER | FOR FRONT PANEL | 2 |
| 156 | VYTT488-002 | L.D.S.SHEET | | 1 |
| 157 | VKY4535-001 | EARTH PLATE | FOR CASSETTE DOOR | 1 |
| 159 | VYSA1R2-008 | SPACER | FOR VOLUME | 1 |
| | VYSA1R2-008 | SPACER | FOR VOLUME SHAFT | 1 |
| 160 | VYSH115-008 | SPACER | FOR P.SUPPLY BOARD | 1 |
| 161 | SDST3006Z | SCREW | | 1 |
| | SDST3006Z | SCREW | | 3 |
| | SDST3006Z | SCREW | | 1 |
| 162 | VYSA1R8-027 | SPACER | FOR TOP COVER | 3 |
| 163 | VYSR105-004 | SPACER | FOR H.PHONE BOARD | 1 |
| 164 | VWE350-08NTNT | LUG WIRE | | 3 |
| 166 | VYSH104-022 | SPACER | FOR FRONT PLATE | 3 |
| 167 | VO4062-001 | CONTHI. PLUG | TD-R611 U | 1 |

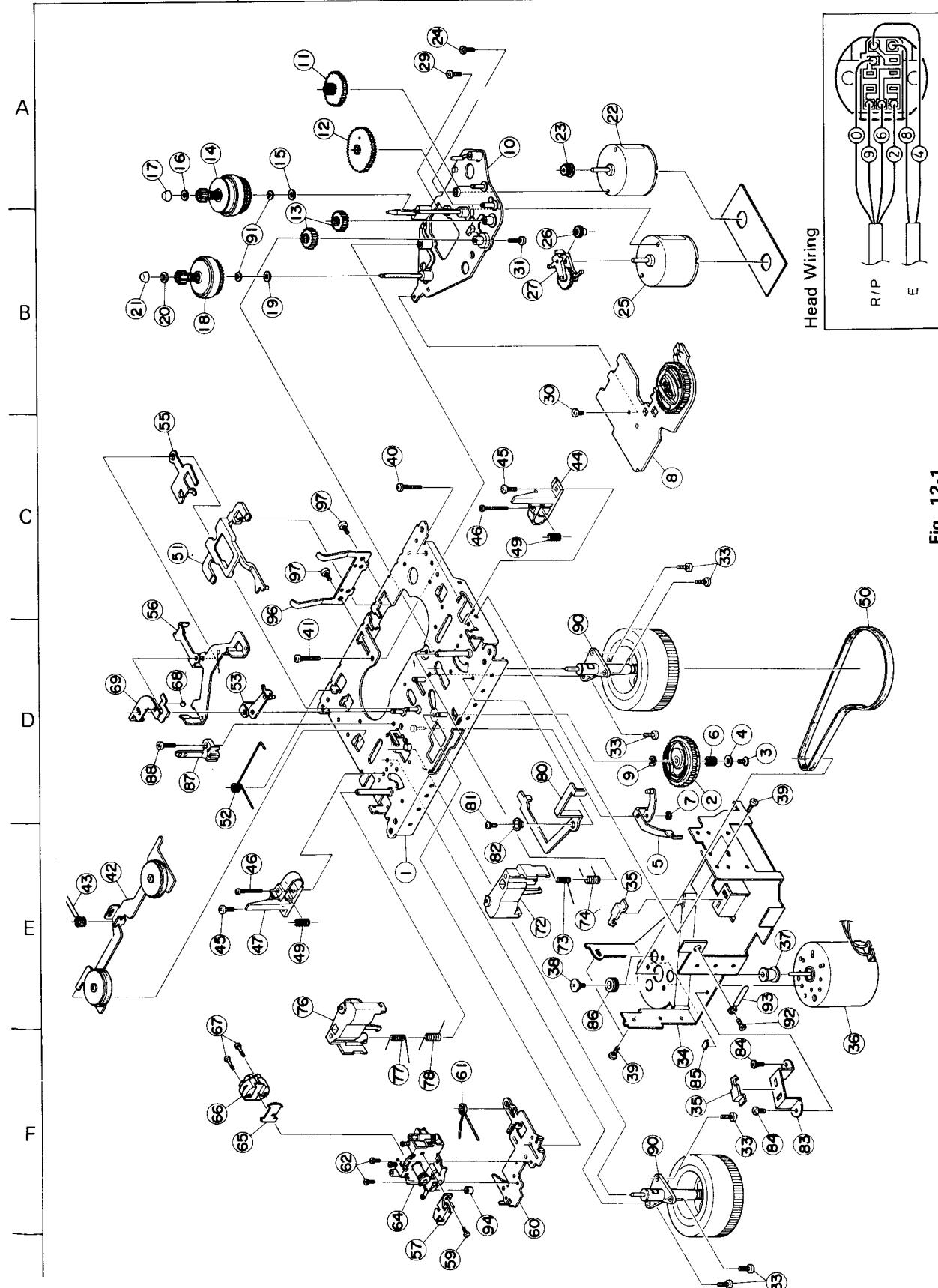
△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

| | | | | |
|------------|----------------|-----------------------|-------------------|---|
| 22,23,24-2 | ZCTDR611J-FBK | Front Panel Ass'y | TD-R611J only | 1 |
| 22,23,24-1 | ZCTDR611K-FBK | Front Panel Ass'y | Except J. Version | 1 |
| 76~80 | ZCTDR611K-CLBK | Cassette Lid Ass'y | | 1 |
| 72~76 | ZCTDR611K-CH | Cassette Holder Ass'y | | 1 |

12 Exploded View of Mechanism Assembly and Parts List

1 2 3 4 5



Mechanism Component Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

| △ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY |
|--------|-------------|-----------------|----------------|-----|
| | ICM3 | DN6838A | ICM1 | 2 |
| 1 | VKL2251-00H | CHASSIS BS ASSY | | 1 |
| 2 | VKS2122-001 | P.ROLLER CAM | | 1 |
| 3 | VKZ4340-002 | SCREW | | 1 |
| 4 | VKZ4284-002 | WASHER | | 1 |
| 5 | VKL5333-00C | HEAD LEVER ASSY | | 1 |
| 6 | VKW4760-001 | C.SPRING | | 1 |
| 7 | REE1500 | E.RING | | 1 |
| 8 | VKZ3136-00C | CAM SWITCH ASSY | | 1 |
| 9 | VKZ4003-010 | FELT | | 1 |
| 10 | VKL2173-00E | DISK BASE ASS'Y | | 1 |
| 11 | VKR3001-001 | GEAR(2) | | 1 |
| 12 | VKR3001-002 | GEAR(2) | | 1 |
| 13 | VKR3000-001 | GEAR(1) | | 2 |
| 14 | VKR4325-00C | R.DISK ASS'Y(5) | | 1 |
| 15 | VKZ4003-010 | FELT | BACK TENSION | 1 |
| 16 | VKR4170-001 | RING | | 1 |
| 17 | VKS4131-001 | REEL STOPPER | | 1 |
| 18 | VKR4325-00C | R.DISK ASS'Y(5) | | 1 |
| 19 | VKZ4003-010 | FELT | BACK TENSION | 1 |
| 20 | VKR4170-001 | RING | | 1 |
| 21 | VKS4131-001 | REEL STOPPER | | 1 |
| △ 22 | MNN-6F2RA8Z | DC MOTOR | M5 FOR CAM | 1 |
| 23 | VKR4326-001 | MOTOR GEAR | CAM MOTOR | 1 |
| 24 | DPSP2608Z | SCREW | CAM MOTOR | 1 |
| △ 25 | MNN-6F2RA8Z | DC MOTOR | M6 FOR REEL | 1 |
| 26 | VKR3000-003 | GEAR(1) | REEL MOTOR | 1 |
| 27 | VKS4503-00D | F.R ASS'Y | | 1 |
| 29 | SWSP2608Z | SCREW | REEL MOTOR | 1 |
| 30 | SDST2604Z | SCREW | CAM SW | 1 |
| △ 31 | SDST2608Z | SCREW | D.BASE UNIT | 1 |
| 33 | SDST2605Z | SCREW | | 6 |
| 34 | VKL3726-004 | F.M. BRACKET | | 1 |
| 35 | VKS4437-001 | THRUST PLATE | | 2 |
| △ 36 | MMU-5B2LNL | D.C.MOTOR | M4 CAPSTAN | 1 |
| 37 | VKR4317-002 | MOTOR PULLEY | | 1 |
| 38 | 18211202T | COLLAR SCREW | | 2 |
| 39 | SDST2606Z | SCREW | | 4 |
| 40 | SPSP2615Z | SCREW | CAM MOTOR | 1 |
| 41 | LPSP2614Z | SCREW | REEL MOTOR | 1 |
| 42 | VKL3411-00A | TAKE UP IDLER | | 1 |
| 43 | VKW3006-099 | TORSION SPRING | TAKE-UP | 1 |
| 44 | VKS4815-001 | CASSETTE GUIDE | | 1 |
| 45 | SDST2606Z | SCREW | CASSETTE GUIDE | 2 |
| 46 | SPSP2615Z | SCREW | | 2 |
| 47 | VKS4816-001 | CASSETTE GUIDE | | 1 |
| 49 | VKW3001-170 | COMP.SPRING | | 2 |
| 50 | VKB3001-017 | CAPSTAN BELT | | 1 |
| 51 | VKS3162-004 | BRAKE BAR | | 1 |
| 52 | VKW4380-001 | TORSION SPRING | | 1 |
| 53 | VKL5316-00E | H.BASE ARM ASSY | | 1 |
| 55 | VKL5318-003 | HEAD ARM | | 1 |
| 56 | VKL3413-00D | P.R.LEVER ASS'Y | | 1 |
| 57 | VKS4931-001 | WIRE HOLDER | | 1 |

| ▲ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY |
|---|------|-------------|----------------|-----------------|-----|
| | 59 | SPSH2018M | MINI SCREW | | 1 |
| | 60 | VKL3683-003 | HEAD BASE | | 1 |
| | 61 | VKW4467-004 | TORSION SPRING | | 1 |
| | 62 | SPSM2025M | P.LOCK SCREW | | 2 |
| | 64 | VKL3793-00E | H.MOUNTBASE | ASS'Y PARTS | 1 |
| | 65 | VKZ4271-002 | WIRE STOPPER | | 1 |
| | 66 | VGH0425-534 | R/P &E HEAD | H2 | 1 |
| | 67 | VKZ4291-003 | HEAD SCREW | | 2 |
| | 68 | T41615-004 | STEEL BALL | HEAD BASE | 1 |
| | 69 | VKY4425-002 | SPRING PLATE | HEAD BASE | 1 |
| | 72 | VKP4169-00D | P.R.ARM ASS'Y | RIGHT | 1 |
| | 73 | VKW3006-130 | TORSION SPRING | PINCH ROLLER | 1 |
| | 74 | VKW3006-057 | TORSION SPRING | RETURN | 1 |
| | 76 | VKP4171-00D | P.R.ARM ASS'Y | LEFT | 1 |
| | 77 | VKW3006-131 | TORSION SPRING | PINCH ROLLER | 1 |
| | 78 | VKW3006-143 | TORSION SPRING | RETURN | 1 |
| | 80 | VKL5322-003 | DOOR SAFETY | | 1 |
| | 81 | SDST2606Z | SCREW | | 1 |
| | 82 | VKH4418-001 | FLANGE COLLAR | | 1 |
| | 83 | VKL6189-001 | FW. HOLDER | | 1 |
| | 84 | SDST2605Z | SCREW | | 2 |
| | 85 | VYSR101-008 | SPACER | | 2 |
| | 86 | 18201306T | RUBBER CUSHION | | 2 |
| | 87 | SPI-302 | REFLECTOR | | 1 |
| | 88 | SDST2606Z | SCREW | | 1 |
| | 90 | VKF3123-00G | FLYWHEEL ASS'Y | | 2 |
| | 91 | Q03093-834 | WASHER | | 2 |
| | 92 | SSST2605Z | SCREW | | 1 |
| | 93 | VKZ4001-009 | WIRE HOLDER | | 1 |
| | 94 | QXTX154-004 | TUBE | | 1 |
| | 96 | VKY4279-001 | PACK SPRING | | 1 |
| | 97 | SDST2604Z | SCREW | FOR PACK SPRING | 2 |

13 Packing and Packing Parts List

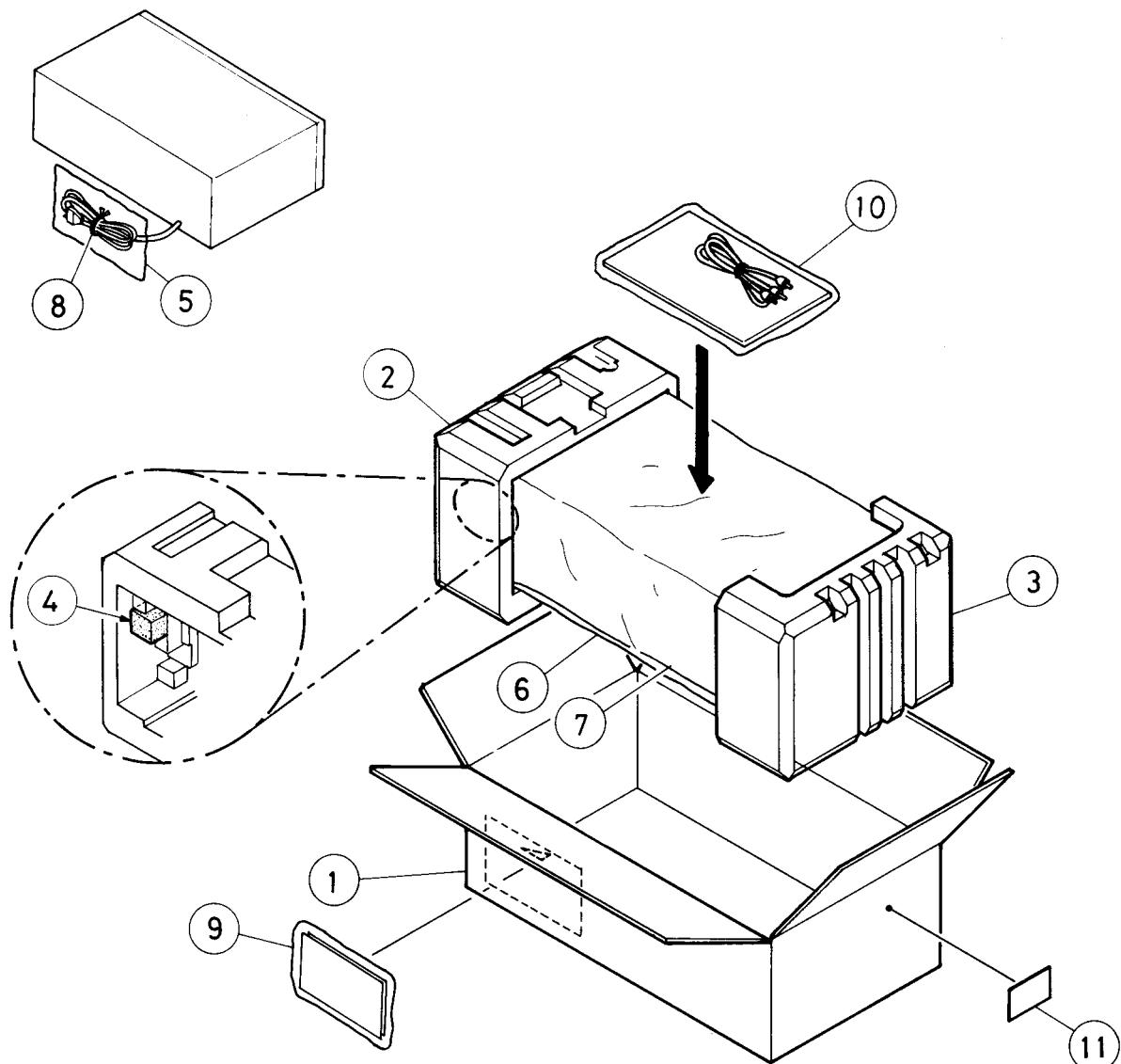


Fig. 13-1

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Packing Parts List

| △ | Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|---|----------|---------------|---------------|------------------------|------|
| | 1 | VPC2206-002 | Carton | | 1 |
| | 2 | VPH2315-001 | Cushion | Left Side | 1 |
| | 3 | VPH2315-002 | " | Right Side | 1 |
| | 4 | VPH4116-003 | Pad | Inside for VPH2315-001 | 1 |
| | 5 | QPGA010-03003 | Poly Bag | for Power Cord | 1 |
| | 6 | E34033-015B | " | | 1 |
| | 7 | VPK3001-001 | Sheet | for Unit | 1 |
| | 8 | Q0414H | Wire Clamp | for Power Cord | 1 |
| | 9 | E66416-003 | Envelope | for Warranty Card | 1 |
| | 10 | VPE3005-007 | Envelope | [J/U (PX, EES) Only] | 1 |
| | 11 | VND3044-001 | Serial Ticket | TD-R611 A/U (WT) | 1 |
| | " | " -001 | " | TD-R611 C (WT) | 2 |
| | " | " -002 | " | TD-R611 J (OR) | 2 |
| | " | " -003 | " | TD-R611 E (BU) | 1 |
| | " | " -004 | " | TD-R611 B () | 1 |
| | " | " -005 | " | TD-R611 G | 1 |

14 Accessories

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|--|---|---|-----------------------|
| | VMP0039-00C EWP805-001 VNN2206-661 BT20060 BT20066 | Pin Cord Remote Wire Instruction Book Warranty Card " | TD-R611 B TD-R611 B/G | 1 1 1 1 1 |
| | BT20029C BT20098 BT20025J BT20047C BT20064A | " " " " " | TD-R611 A TD-R611 A TD-R611 C TD-R611 J/U (for PX, EES) TD-R611 G | 1 1 1 1 1 |
| | BT20071A BT2046C BT20044E VNC2200-019 VNC5311-203 | SVC Center List Special Reply Card Safety Guide Copy Right Law Warning Caution Card | TD-R611 C TD-R611 J/U (for PX, EES) TD-R611 J TD-W611 U (for EES) | 1 1 1 1 |
| | " -204 V04062-001 TCP-3304 | " Conthi Plug Audio Tape Pamphlet | TD-R611 U (for PX) TD-R611 U | 1 1 1 |



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